

KW fungicide; antiparasitic; antiarteriosclerotic; vulnery; cytostatic;
KW haemopoietic; haematologic; anaemia; autoimmune disorder;
KW rheumatoid arthritis; inflammation; Grave's disease; diabetes;
KW systemic lupus erythematosus; glomerulonephritis; neurodegenerative;
KW Parkinson's; Alzheimer's; wound; hyperproliferative; atherosclerosis;
KW cancer; bacterial; viral; fungal; parasitic infection; gene therapy;
KW human; gene; ds.
XX
OS Homo sapiens.
XX
PN WO2003038063-A2.
XX
PD 08-MAY-2003.
XX
PF 19-MAR-2002; 2002WO-US008277.
XX
PR 21-MAR-2001; 2001US-0277340P.
PR 19-JUL-2001; 2001US-0306171P.
PR 13-NOV-2001; 2001US-0331287P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2003-430516/40.
XX
XX P-PSDB; ADC74152.
PT New human secreted polypeptide for diagnosing, preventing or treating
PT hematopoietic or hematologic disorders (e.g. anemia), autoimmune
PT disorders (e.g. diabetes) or hyperproliferative disorders (e.g. cancer or
PT atherosclerosis).
XX
PS Claim 27; SEQ ID NO 170; 2272pp; English.
XX
CC The invention relates to a novel human secreted polypeptide comprising a
CC defined sequence given in the specification. The polypeptide, nucleic
CC acid molecule, antibody, agonist or antagonist of the invention may be
CC useful for preparing a composition for diagnosing or treating a
CC haemopoietic or haematologic disorder such as anaemia, autoimmune
CC disorders such as rheumatoid arthritis, inflammation, Grave's disease,
CC diabetes, systemic lupus erythematosus or glomerulonephritis,
CC neurodegenerative disorders including Parkinson's disease and Alzheimer's
CC disease, wounds and hyperproliferative disorders including
CC atherosclerosis or cancer, as well as bacterial, viral, fungal or
CC parasitic infections. The polypeptide may also be used during gene
CC therapy procedures and for identifying a binding partner by contacting
CC the polypeptide with a binding partner and determining whether the
CC binding partner increases or decreases the activity of the polypeptide.
CC The current sequence is that of the human secreted protein-related DNA of
CC the invention.
XX
SQ Sequence 2152 BP; 541 A; 526 C; 531 G; 553 T; 0 U; 1 Other;
Query Match 95.3%; Score 2135.6; DB 10; Length 2152;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2148; Conservative 1; Mismatches 0; Indels . 3; Gaps 1;
QY 19 CCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCCTCGTCTTCCGCGGGG 78
DB 1 CCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCCTCGTCTTCCGCGGGG 60
QY 79 ACAACGTGGTTCAGGGCACAGAGAGATATTAAATGTACCCCTCTTGGGCTTTCATGGGA 138
DB 61 ACAACGTGGTTCAGGGCACAGAGAGATATTAAATGTACCCCTCTTGGGCTTTCATGGGA 120
QY 139 CTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 198
DB 121 CTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCC 180
QY 199 TAATGGATCCCAAACTCGGGGAGAAATGGTGGCTCCCTGCTGGCTG--TGCTGCTGCTGC 255
DB 181 TAATGGATCCCAAACTCGGGGAGAAATGGTGGCTCCCTGCTGGCTGCTGCTGCTGCTGC 240

QY 256 TGCTGGAGCGCGGCATGTTCTCCTCACCCCTCCCCCGCGCGCTGTAGAGAAAGTCT 315
DB 241 TGCTGGAGCGCGGCATGTTCTCCTCACCCCTCCCCCGCGCGCTGTAGAGAAAGTCT 300
QY 316 TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGTGGCCA 375
DB 301 TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGTGGCCA 360
QY 376 TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGG 435
DB 361 TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGG 420
QY 436 CCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCCGTGTGGCCTCGGTGGACATGGGTC 495
DB 421 CCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCCGTGTGGCCTCGGTGGACATGGGTC 480
QY 496 CTCAGCAGCTGCCGATGGTTCAGAGTCTTCCAATACCTCCCGTCACTCCTGGCCGAACTGG 555
DB 481 CTCAGCAGCTGCCGATGGTTCAGAGTCTTCCAATACCTCCCGTCACTCCTGGCCGAACTGG 540
QY 556 GGAGCGATCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGAGCTGCAGCCTGCTG 615
DB 541 GGAGCGATCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGAGCTGCAGCCTGCTG 600
QY 616 ACCGGGGGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGAACTTT 675
DB 601 ACCGGGGGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGAACTTT 660
QY 676 ATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 735
DB 661 ATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG 720
QY 736 CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTCATTCAGGGGATGG 795
DB 721 CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTCATTCAGGGGATGG 780
QY 796 AAGAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGGAAAAAGAAAGACCGATTCTTCT 855
DB 781 AAGAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGGAAAAAGAAAGACCGATTCTTCT 840
QY 856 CTGCTTGGACTACATTGTAATTTTCAGATAAACCCTGTGGATCAGCCAAAGAACCCAGCAA 915
DB 841 CTGCTTGGACTACATTGTAATTTTCAGATAAACCCTGTGGATCAGCCAAAGAACCCAGCAA 900
QY 916 TCACCTATGGAACCCGGGGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGG 975
DB 901 TCACCTATGGAACCCGGGGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGG 960
QY 976 ATTTTCACTCAGGAACCTTTTGGTGGCATCCTTCATGAACCAATGSGTGATCTGTTGCTC 1035
DB 961 ATTTTCACTCAGGAACCTTTTGGTGGCATCCTTCATGAACCAATGSGTGATCTGTTGCTC 1020
QY 1036 TTCTCGGTAGCCTGGTAGACTCGTCTGGTTCATATCCTGGTCCCTGGAATCTATGATGAAG 1095
DB 1021 TTCTCGGTAGCCTGGTAGACTCGTCTGGTTCATATCCTGGTCCCTGGAATCTATGATGAAG 1080
QY 1096 TGGTTCCTCTTACAGAAGAGGAATAAAATACATACAAAGCCATCCATCTAGACCTAGAAG 1155
DB 1081 TGGTTCCTCTTACAGAAGAGGAATAAAATACATACAAAGCCATCCATCTAGACCTAGAAG 1140
QY 1156 AATACCGGAATAGCAGCGGGTTGAGAAATTTCTGTTTCGATACTAAGAGGAGGATTCCTAA 1215
DB 1141 AATACCGGAATAGCAGCGGGTTGAGAAATTTCTGTTTCGATACTAAGAGGAGGATTCCTAA 1200
QY 1216 TGCACCTCTGGAGGTACCCCATCTCTTTCTATTTCATGGGATCGAGGGCGGTTTGATGAGC 1275
DB 1201 TGCACCTCTGGAGGTACCCCATCTCTTTCTATTTCATGGGATCGAGGGCGGTTTGATGAGC 1260
QY 1276 CTGGAATAAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTCAATCCGCTCTAGTCC 1335
DB 1261 CTGGAATAAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTCAATCCGCTCTAGTCC 1320
QY 1336 CTCACATGAATGTGTCTGCGGTGGAAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT 1395

Db 1321 CTACATGAATGTGTCTGCGTGGAAAAACAGGTGACACGACATCTTGAAGATGTTCT 1380
QY 1396 CCAAAAGAAATAGTTCACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA 1455
Db 1381 CCAAAAGAAATAGTTCACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA 1440
QY 1456 TTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTG 1515
Db 1441 TTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTG 1500
QY 1516 GAACAGAACAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGG 1575
Db 1501 GAACAGAACAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGG 1560
QY 1576 AGATCGTCCACAAGAGCGTGGTCTTAATTCGCTGGGAGCTGTTGATGATGGAGAACATT 1635
Db 1561 AGATCGTCCACAAGAGCGTGGTCTTAATTCGCTGGGAGCTGTTGATGATGGAGAACATT 1620
QY 1636 CGCAGAAATGAGAAAATCAACAGGTGGAACCTACATAGAGGGAACCAAAATATTGCTGCCT 1695
Db 1621 CGCAGAAATGAGAAAATCAACAGGTGGAACCTACATAGAGGGAACCAAAATATTGCTGCCT 1680
QY 1696 TTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCCA 1755
Db 1681 TTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCCA 1740
QY 1756 CTGACAGATTACCTCCCCACATCCCTAGACAGGGATGGAATGTAATAATCCAGAGAAAT 1815
Db 1741 CTGACAGATTACCTCCCCACATCCCTAGACAGGGATGGAATGTAATAATCCAGAGAAAT 1800
QY 1816 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGTCTGGGATATCTGGATCAG 1875
Db 1801 TTGGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGTCTGGGATATCTGGATCAG 1860
QY 1876 TAATAAATATTTCAAAGGCACAGATGTTGGAATGGTTTAAGTCCCCCAGTGCACACC 1935
Db 1861 TAATAAATATTTCAAAGGCACAGATGTTGGAATGGTTTAAGTCCCCCAGTGCACACC 1920
QY 1936 TTCCTCAAGTCATAGTCTGTTGCAGCAACTTGATTTCCCAAGTCCTGTGCAATAGCCCC 1995
Db 1921 TTCCTCAAGTCATAGTCTGTTGCAGCAACTTGATTTCCCAAGTCCTGTGCAATAGCCCC 1980
QY 1996 AGGATTGGAATCCTTCCAAACCTTTTACGATATCTCCAACCTTGCAATTTGATTGGCATAA 2055
Db 1981 AGGATTGGAATCCTTCCAAACCTTTTACGATATCTCCAACCTTGCAATTTGATTGGCATAA 2040
QY 2056 TCACTCCGGTTGCTTTCTAGTCTTCAAGTCTCGTGACACATAATCATTCCATCCAAT 2115
Db 2041 TCACTCCGGTTGCTTTCTAGTCTTCAAGTCTCGTGACACATAATCATTCCATCCAAT 2100
QY 2116 GATCGCCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAATAATGTTG 2167
Db 2101 GATCGCCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAATAATGTTG 2152

RESULT 21

ADE11660
ID ADE11660 standard; cDNA; 2152 BP.

XX AC ADE11660;

XX DT 29-JAN-2004 (first entry)

XX DE Human secreted polypeptide cDNA #22.

XX KW Secreted protein; cancer; liver disorder; hepatitis; neural disorder;

XX OS Alzheimer's disease; human; ss; gene.

XX OS Synthetic.

XX OS Homo sapiens.

PN US2003100051-A1.

XX 29-MAY-2003.
PD
XX 10-SEP-2001; 2001US-00948783.
PF 12-MAY-1998; 98US-0085093P.
XX 12-MAY-1998; 98US-0085094P.
PR 12-MAY-1998; 98US-0085105P.
PR 12-MAY-1998; 98US-0085180P.
PR 18-MAY-1998; 98US-0085906P.
PR 18-MAY-1998; 98US-0085920P.
PR 18-MAY-1998; 98US-0085921P.
PR 18-MAY-1998; 98US-0085922P.
PR 18-MAY-1998; 98US-0085923P.
PR 18-MAY-1998; 98US-0085924P.
PR 18-MAY-1998; 98US-0085925P.
PR 18-MAY-1998; 98US-0085927P.
PR 18-MAY-1998; 98US-0085928P.
PR 06-MAY-1999; 99WO-US009847.
PR 10-NOV-1999; 99US-00437658.
PR 11-SEP-2000; 2000US-0231846P.
PR 28-JUN-2001; 2001US-00892877.
XX (RUBE/) RUBEN S M.
PA (FLOR/) FLORENCE K A.
PA (NIJ/) NI J.
PA (ROSE/) ROSEN C A.
PA (CART/) CARTER K C.
PA (MOOR/) MOORE P A.
PA (OLSE/) OLSEN H S.
PA (SHIY/) SHI Y.
PA (YOUN/) YOUNG P E.
PA (WEIY/) WEI Y.
PA (BREW/) BREWER L A.
PA (SOPP/) SOPPET D R.
PA (LAF/) LAFLEUR D W.
PA (ENDR/) ENDRESS G A.
PA (EBNE/) EBNER R.
PA (BIRS/) BIRSE C E.
XX Ruben SM, Florence KA, Ni J, Rosen CA, Carter KC, Moore PA;
PI Olsen HS, Shi Y, Young PE, Wei Y, Brewer LA, Soppet DR, Lafleur DW;
PI Endress GA, Ebner R, Birse CE;
XX WPI; 2003-801210/75.
DR
XX New nucleic acid molecule, useful for preparing a medicament for
PT preventing, treating or ameliorating a medical condition e.g. cancer,
PT liver disorders or neural disorders.
XX Claim 1; SEQ ID NO 32; 453pp; English.
PS
XX The invention relates to human secreted polypeptides and the
CC polynucleotides encoding them. The sequences are useful for preparing
CC medicaments for preventing, treating or ameliorating medical conditions
CC e.g., cancer, liver disorders such as hepatitis or neural disorders such
CC as Alzheimer's disease. This sequence represents cDNA encoding a human
CC secreted polypeptide of the invention.
XX
SQ Sequence 2152 BP; 541 A; 526 C; 531 G; 553 T; 0 U; 1 Other;

Query Match 95.3%; Score 2135.6; DB 10; Length 2152;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2148; Conservative 1; Mismatches 0; Indels 3; Gaps 1;

QY 19 CCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACCAGCTCGTCTTCCTCCGGGG 78

Db 1 CCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACCAGCTCGTCTTCCTCCGGGG 60

QY 79 ACAACGTGGGTCAGGGCACAGAGAGATATTTAATGTCACCCCTCTGGGGCTTTTCATGGGA 138

Db 61 ACAACGTGGGTCAGGGCACAGAGAGATATTTAATGTCACCCCTCTGGGGCTTTTCATGGGA 120

Qy	139	CTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGGCC	198
Db	121	CTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGGCC	180
Qy	199	TAATGGATCCAAACTCGGAGAAATGGCTGCCTCTGCTGGCTG--TGCTGCTGCTGC	255
Db	181	TAATGGATCCAAACTCGGAGAAATGGCTGCCTCTGCTGGCTGCTGCTGCTGCTGCTGC	240
Qy	256	TGCTGGAGCGCGCATGTTCTCTCACCCCTCCCGCCCCCGCGCTGTTAGAGAAAGTCT	315
Db	241	TGCTGGAGCGCGCATGTTCTCTCACCCCTCCCGCCCCCGCGCTGTTAGAGAAAGTCT	300
Qy	316	TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGGCCA	375
Db	301	TCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGGCCA	360
Qy	376	TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGG	435
Db	361	TCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGG	420
Qy	436	CCGTGGCTGCGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTCT	495
Db	421	CCGTGGCTGCGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTCT	480
Qy	496	CTCAGCAGTGCOCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACTGG	555
Db	481	CTCAGCAGTGCOCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACTGG	540
Qy	556	GGAGCGATCCACGAAAGGCACCGTGTGCTTTACGGCCACTTGGACGTGCAGCCTGCTG	615
Db	541	GGAGCGATCCACGAAAGGCACCGTGTGCTTTACGGCCACTTGGACGTGCAGCCTGCTG	600
Qy	616	ACCGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTT	675
Db	601	ACCGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTT	660
Qy	676	ATGGACGAGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG	735
Db	661	ATGGACGAGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCG	720
Qy	736	CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTCATGAGGGATGG	795
Db	721	CCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTCATGAGGGATGG	780
Qy	796	AAGAGGCTGGCTCTGTGCCCTGGAGGAACCTTGTGAAAAAGAAAGACCGATCTCTCT	855
Db	781	AAGAGGCTGGCTCTGTGCCCTGGAGGAACCTTGTGAAAAAGAAAGACCGATCTCTCT	840
Qy	856	CTGGTGTGGAATACTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGAAAGCCAGCAA	915
Db	841	CTGGTGTGGAATACTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGAAAGCCAGCAA	900
Qy	916	TCACCTTATGGAACCCGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGACACGAG	975
Db	901	TCACCTTATGGAACCCGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGACACGAG	960
Qy	976	ATTTTTCATCAGGAACCTTTGGTGGCATCTTTCATGAAACCAATGGCTGATCTGGTTGCTC	1035
Db	961	ATTTTTCATCAGGAACCTTTGGTGGCATCTTTCATGAAACCAATGGCTGATCTGGTTGCTC	1020
Qy	1036	TTCTCGGAGCCTGGTAGACTCGTCTGGTCAATATCTGGTCCCTGGAATCTATGATGAAG	1095
Db	1021	TTCTCGGAGCCTGGTAGACTCGTCTGGTCAATATCTGGTCCCTGGAATCTATGATGAAG	1080
Qy	1096	TGGTTCCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAG	1155
Db	1081	TGGTTCCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAG	1140
Qy	1156	AATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTTCGATACATAAGGAGGAGATTCTAA	1215
Db	1141	AATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTTCGATACATAAGGAGGAGATTCTAA	1200
Qy	1216	TGCACCTCTGGAGGTACCCATCTCTTTCTATTCAATGGGATCGAGGGCGCGTTTGTATGAGC	1275

Db	1201		TGCACCTCTGGAGGTACCCATCTCTTTCTATTATCATGGGATCGAGGGCGCGTTTGATGAGC	1260
Qy	1276		CTGGAACTAAAAACAGTTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTCTAGTCC	1335
Db	1261		CTGGAACTAAAAACAGTTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTCTAGTCC	1320
Qy	1336		CTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT	1395
Db	1321		CTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCT	1380
Qy	1396		CCAAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA	1455
Db	1381		CCAAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGA	1440
Qy	1456		TTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAAGAGCGATCAGAAACAGTGTG	1515
Db	1441		TTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAAGAGCGATCAGAAACAGTGTG	1500
Qy	1516		GAAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAAATTGCCAAAAATGTTCCAGG	1575
Db	1501		GAAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAAATTGCCAAAAATGTTCCAGG	1560
Qy	1576		AGATCGTCCACAAGAGCGTGGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATT	1635
Db	1561		AGATCGTCCACAAGAGCGTGGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATT	1620
Qy	1636		CGCAGAAATGAGAAAAATCAACAGGTGGAACTACATAGAGGGAAACCAATATTTGCTGCCT	1695
Db	1621		CGCAGAAATGAGAAAAATCAACAGGTGGAACTACATAGAGGGAAACCAATATTTGCTGCCT	1680
Qy	1696		TTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCTAGTCTGATCTGATCCA	1755
Db	1681		TTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCTAGTCTGATCTGATCCA	1740
Qy	1756		CTGACAGATTTCACCTCCCCACATCCCTAGACAGGGATGGAATGTAATATCCAGAGAAAT	1815
Db	1741		CTGACAGATTTCACCTCCCCACATCCCTAGACAGGGATGGAATGTAATATCCAGAGAAAT	1800
Qy	1816		TTGGGTCTAGTATAGTACATTTTCCCTTCCATTAAAAATGCTTTGGGATATCTGGATCAG	1875
Db	1801		TTGGGTCTAGTATAGTACATTTTCCCTTCCATTAAAAATGCTTTGGGATATCTGGATCAG	1860
Qy	1876		TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGTTTAAGGTCCCCACTGCACACC	1935
Db	1861		TAATAAAATATTTCAAAGGCACAGATGTTGGAAATGTTTAAGGTCCCCACTGCACACC	1920
Qy	1936		TTCTCTCAAGTCATAGTGTCTTGACGCAACTTGATTTTCCCCCAAGTCTCTGCAATAGCCCC	1995
Db	1921		TTCTCTCAAGTCATAGTGTCTTGACGCAACTTGATTTTCCCCCAAGTCTCTGCAATAGCCCC	1980
Qy	1996		AGGATTGGATTTCCTTCCAAACCTTTTAGCATATCTCCAAACCTTGCAATTTGATTGGCATAA	2055
Db	1981		AGGATTGGATTTCCTTCCAAACCTTTTAGCATATCTCCAAACCTTGCAATTTGATTGGCATAA	2040
Qy	2056		TCACCTCCGGTTTGTCTTAGGTCTCTCAAGTGCTCGTGACACATAATCATTTCCATCCAAT	2115
Db	2041		TCACCTCCGGTTTGTCTTAGGTCTCTCAAGTGCTCGTGACACATAATCATTTCCATCCAAT	2100
Qy	2116		GATCGCCTTTGCTTTACCACCTCTTTTCTTTTATCTTATTAATAAAAAATGTTG	2167
Db	2101		GATCGCCTTTGCTTTACCAYTCTTTTCTTTTATCTTATTAATAAAAAATGTTG	2152

RESULT 22
ABL90090
ID ABL90090 standard; cDNA; 2039 BP.

AC ABL90090;

XX
DT 24-MAY-2002 (first entry)

Human polynucleotide SEQ ID NO 652.

QY 1539 GATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTG 1598
|||
Db 1386 GATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTG 1445

QY 1599 CTAATTCGCTGGGAGCTGTTGATGATGGAGAACATTTCGCAGAAATGAGAAAATCAACAGG 1658
|||
Db 1446 CTAATTCGCTGGGAGCTGTTGATGATGGAGAACATTTCGCAGAAATGAGAAAATCAACAGG 1505

QY 1659 TGGAACTACATAGAGGGAACCAAATTATTTGCTGCTTTTCTTAGAGATGGCCCCAGCTC 1718
|||
Db 1506 TGGAACTACATAGAGGGAACCAAATTATTTGCTGCTTTTCTTAGAGATGGCCCCAGCTC 1565

QY 1719 CATTAATCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACTCCCCCACA 1778
|||
Db 1566 CATTAATCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACTCCCCCACA 1625

QY 1779 T-CCCTAGACAGGGATGGAATGTAAATATCCAGAGAAATTTGGGTCTAGTATAGTACATTT 1837
|||
Db 1626 TCCCCTAGACAGGGATGGAATGTAAATATCCAGAGAAATTTGGGTCTAGTATAGTACATTT 1685

QY 1838 TCCCTTCCATTTAAATGCTTTGGGATATCTGGATCAGTAATAAAATATTTCAAAGGCAC 1897
|||
Db 1686 TCCCTTCCATTTAAATGCTTTGGGATATCTGGATCAGTAATAAAATATTTCAAAGGCAC 1745

QY 1898 AGATGTTGGAATGGTTAAGGTCCCCACTGCACACCTTCTCAAGTCATAGTCTGCTTG 1957
|||
Db 1746 AGATGTTGGAATGGTTAAGGTCCCCACTGCACACCTTCTCAAGTCATAGTCTGCTTG 1805

QY 1958 CAGCAACTTGATTTCCCAAGTCTCTGTGCAATAGCCCCAGGATTGGATTCTTCCAACCT 2017
|||
Db 1806 CAGCAACTTGATTTCCCAAGTCTCTGTGCAATAGCCCCAGGATTGGATTCTTCCAACCT 1865

QY 2018 TTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAATCACTCCGGTTTGCTTTCTAGG 2077
|||
Db 1866 TTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAATCACTCCGGTTTGCTTTCTAGG 1925

QY 2078 TCCTCAAGTCTGTGACACATATAATCATTCATCCAAATGATCGCCTTTGTTTACCACCTC 2137
|||
Db 1926 TCCTCAAGTCTGTGACACATATAATCATTCATCCAAATGATCGCCTTTGTTTACCACCTC 1985

QY 2138 TTTCCCTTTTATCTTAAATAAATAAATGTTGGTCTCCA 2174
|||
Db 1986 TTTCCCTTTT-TCCTAATAAATAAATAAATGTTGGTCTCCA 2021

RESULT 23
ADC77690
ID ADC77690 standard; cDNA; 1640 BP.
XX
AC ADC77690;
XX
DT 01-JAN-2004 (first entry)
XX
DE Human 55054 protein encoding cDNA SEQ ID NO:53.
XX
KW pain disorder; pain signalling mechanism; analgesic; antimigraine;
KW antiinflammatory; gene therapy; inflammatory pain; chronic pain;
KW neuropathic pain; neuralgia; fibromyalgia; cancer pain; migraine;
KW headache; pain; human; gene; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 42..1568
FT /*tag= a
FT /product= "55054 protein"
XX
PN WO2003073983-A2.
XX
PD 12-SEP-2003.
XX
PF 19-FEB-2003; 2003WO-US004816.

XX
PR 28-FEB-2002; 2002US-0360495P.
PR 04-APR-2002; 2002US-0370121P.
PR 16-APR-2002; 2002US-0373010P.
PR 19-APR-2002; 2002US-0373908P.
PR 03-MAY-2002; 2002US-0377717P.
PR 13-MAY-2002; 2002US-0379949P.
PR 21-MAY-2002; 2002US-0382409P.
PR 03-JUN-2002; 2002US-0385280P.
PR 06-JUN-2002; 2002US-0386879P.
PR 10-JUN-2002; 2002US-0387536P.
PR 08-JUL-2002; 2002US-0394376P.
PR 21-AUG-2002; 2002US-0404996P.
PR 19-SEP-2002; 2002US-0412006P.
PR 09-OCT-2002; 2002US-0417327P.
PR 10-OCT-2002; 2002US-0417499P.
PR 15-NOV-2002; 2002US-0426964P.
PR 10-DEC-2002; 2002US-0432320P.
XX
PA (MILL-) MILLENNIUM PHARM INC.
XX
PI Rosenfeld JB, Silos-Santiago I;
XX
XX
DR WPI; 2003-712843/67.
DR P-PSDB; ADC77691.
XX
PT Identifying a compound capable of treating a pain disorder e.g.,
PT neuropathic pain comprises assaying the ability of the compound to
PT modulate the nucleic acid expression or polypeptide activity.
XX
PS Claim 1; SEQ ID NO 53; 277pp; English.
XX
CC The present invention describes a method for identifying a compound (C)
CC capable of treating a pain disorder comprising assaying the ability of
CC the compound to modulate 9949, 14230, 760, 62553, 12216, 17719, 41897,
CC 47174, 33408, 10002, 16209, 314, 636, 27410, 33260, 619, or 13424 nucleic
CC acid expression or 9949, 14230, 760, 62553, 12216, 17719, 41897, 47174,
CC 33408, 10002, 16209, 314, 636, 27410, 33260, 619, 15985, polypeptide
CC activity. Also described: (1) identifying a compound (C) capable of
CC modulating a pain signalling mechanism; and (2) treating a subject having
CC a pain disorder characterised by aberrant nucleic acid expression or
CC polypeptide activity. (C) has analgesic, antimigraine and
CC antiinflammatory activities, and can be used in gene therapy. The method
CC is useful for identifying a modulator compound capable of treating a pain
CC disorder, e.g. inflammatory pain, chronic pain, migraine/headache pain, tissue
CC pain comprising administering the modulator to a subject having a pain
CC disorder characterised by aberrant nucleic acid expression or polypeptide
CC activity. The present sequence encodes the human 55054 protein from the
CC present invention.
XX
SQ Sequence 1640 BP; 416 A; 397 C; 440 G; 387 T; 0 U; 0 Other;

Query Match 72.1%; Score 1616; DB 10; Length 1640;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 1632; Conservative 0; Mismatches 5; Indels 3; Gaps 1;

QY 160 GAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCCTAATGGATCCCAAACCTCGGGA 219
|||||
Db 1 GAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCCAGCCTAATGGATCCCAAACCTCGGGA 60

QY 220 GAATGGCTGCGTCCCTGCTGGCTG---TGCTGCTGCTGCTGGAGCGGCGCATGTTCT 276
|||||
Db 61 GAATGGCTGCGTCCCTGCTGGCTGCTGCTGCTGCTGCTGGAGCGGCGCATGTTCT 120

QY 277 CCTCACCTTCCCCCGGCGCTGTAGAGAAAGTCTTCCAGTACATTGACCTCCATC 336
|||||
Db 121 CCTCACCTTCCCCCGGCGCTGTAGAGAAAGTCTTCCAGTACATTGACCTCCATC 180

QY 337 AGGATGAATTTGTGCAGACCGCTGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGC 396
|||||
Db 181 AGGATGAATTTGTGCAGACCGCTGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGC 240

QY 397 CTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGGCCGTGGCTCGGACACGCTGC 456
Db |||||
241 CTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGGCCGTGGCTCGGACACGCTGC 300
QY 457 AGCGCCTGGGGCCCGTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTC 516
Db |||||
301 AGCGCCTGGGGCCCGTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTC 360
QY 517 AGAGTCTTCCAATACCTCCCGTCATCTCGGTGGCCGAACTGGGGAGCGATCCCACGAAAGGCA 576
Db |||||
361 AGAGTCTTCCAATACCTCCCGTCATCTCGGTGGCCGAACTGGGGAGCGATCCCACGAAAGGCA 420
QY 577 CCGTGTGCTTCTACGGCCACTTTGGACGTGCAGCCTGCTGACCCGGGCGATGGGTGGCTCA 636
Db |||||
421 CCGTGTGCTTCTACGGCCACTTTGGACGTGCAGCCTGCTGACCCGGGCGATGGGTGGCTCA 480
QY 637 CGGACCOCTATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACA 696
Db |||||
481 CGGACCCCTATGTGCTGACGGAGGTAGGCGGAAACTTTATGGACGAGGAGCGACCGACA 540
QY 697 ACAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAG 756
Db |||||
541 ACAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAG 600
QY 757 ATCTTCTGTGAATATCAAAATTCATCATTTGAGGGGATGGAAGAGGCTGGCTCTGTTGCC 816
Db |||||
601 ATCTTCTGTGAATATCAAAATTCATCATTTGAGGGGATGGAAGAGGCTGGCTCTGTTGCC 660
QY 817 TGGAGGAACCTGTGGAAAAAGAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTAA 876
Db |||||
661 TGGAGGAACCTGTGGAAAAAGAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTAA 720
QY 877 TTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGA 936
Db |||||
721 TTTCAGATAACCTGTGGATCAGCCAAAGGAAGCTAGCAATCACTTACGGAACCCGGGGA 780
QY 937 ACAGCTACTTTCATGGTGGAGGTGAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTG 996
Db |||||
781 ACAGCTACTTTCATGGTGGAGGTGAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTG 840
QY 997 GTGGCATCCTTCATGAACCAATGGCTGATCTGTTGCTCTTCTCGGTAGCCTGGTAGACT 1056
Db |||||
841 GTGGCATCCTTCATGAACCAATGGCTGATCTGTTGCTCTTCTCGGTAGCCTGGTAGACT 900
QY 1057 CGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCTCTTACAGAAGAGG 1116
Db |||||
901 CGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCTCTTACAGAAGAGG 960
QY 1117 AAATAAATACATACAAAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGG 1176
Db |||||
961 AAATAAATACATACAAAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGG 1020
QY 1177 TTGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTCTAATGACCTCTGGAGGTACCCAT 1236
Db |||||
1021 TTGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTCTAATGACCTCTGGAGGTACCCAT 1080
QY 1237 CTCCTTCTPATTCATGGGATCGAGGCGCGTTCATGAGCCTGGAACATAAACAGTCAATAC 1296
Db |||||
1081 CTCCTTCTPATTCATGGGATCGAGGCGCGTTCATGAGCCTGGAACATAAACAGTCAATAC 1140
QY 1297 CTGGCCGAGTTATAGGAAAAATTTCAATCCGTCTAGTCCCTCAGATGAATGTCTGCGG 1356
Db |||||
1141 CTGGCCGAGTTATAGGAAAAATTTCAATCCGTCTAGTCCCTCAGATGAATGTCTGCGG 1200
QY 1357 TGGAAAAACAGGTGACACGACATCTGAAGATGTGTTCTCCAAAAGAAATAGTTCCAAACA 1416
Db |||||
1201 TGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAAGAAATAGTTCCAAACA 1260
QY 1417 AGATGGTGTGTTTCCATGACTCTAGGACTACACCGGTGGATTGCAAAATATTGATGACACC 1476
Db |||||
1261 AGATGGTGTGTTTCCATGACTCTAGGACTACACCGGTGGATTGCAAAATATTGATGACACTC 1320
QY 1477 AGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTGTTGGAAACAGAACCATATGATCC 1536

Db 1321 AGTATCTCGAGCAAAAAGACGGATCAGAACAGTGTGGAACAGAACCATATGATCC 1380
QY 1537 GGGATGGATCCACCATTCGAATGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGG 1596
Db 1381 GGGATGGATCCACCATTCGAATGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGG 1440
QY 1597 TGCTAATTCGCTGGAGCTGTGATGATGGAGAACATTTGCTGCCTTTTCTTAGAGATGCCCAGC 1656
Db 1441 TGCTAATTCGCTGGAGCTGTGATGATGGAGAACATTTGCTGCCTTTTCTTAGAGATGCCCAGC 1500
QY 1657 GGTGGAACACATAGAGGGAACCAAAATTTGCTGCCTTTTCTTAGAGATGCCCAGC 1716
Db 1501 GGTGGAACACATAGAGGGAACCAAAATTTGCTGCCTTTTCTTAGAGATGCCCAGC 1560
QY 1717 TCCATTAATCACAAAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACTCCCA 1776
Db 1561 TCCATTAATCACAAAGAACCTTCTAGTCTGATCTGATCTGATCCACTGACAGATTCACTCCCA 1620
QY 1777 CATCCCTAGACAGGGATGGA 1796
Db |||||
1621 CATCCCTAGACAGGGATGGA 1640

RESULT 24
AAS12574
ID AAS12574 standard; DNA; 1587 BP.
XX
AC AAS12574;
XX
DT 03-JAN-2002 (first entry)
XX
DE DNA encoding DPI-45 and DPI-213.
XX
KW Human; depression associated protein isoform; tryptic digest peptide;
KW DPI; cerebrospinal fluid; CSF; BAD; bipolar affective disorder;
KW neuropsychiatric disorder; bipolar mood disorder; neuroleptic; DPI-213;
KW maniac-depressive illness; schizoaffective disorder; DPI-45; ds.
XX Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 35..1540
FT /*tag= a
FT /product= "DPI-45 and DPI-213"
FT /transl_except= (pos:242..244,aa:Xaa)
FT /note= "Xaa= unknown"
FT sig_peptide 35..94
FT /*tag= b
FT mat_peptide 95..1537
FT /*tag= c
XX
PN WO200162787-A1.
XX
PD 30-AUG-2001.
XX
PF 23-FEB-2001; 2001WO-GB000786.
XX
PR 24-FEB-2000; 2000GB-00004412.
PR 08-DEC-2000; 2000GB-00030050.
PR 12-DEC-2000; 2000US-0254830P.
XX
PA (OXFO-) OXFORD GLYCOSCIENCES UK LTD.
XX
PI Herath HMC, Parekh RB, Rohlf C, Terrett JA, Tyson KL;
XX
DR WPI; 2001-570626/64.
DR P-PSDB; AAU28396.
XX
PT Novel nucleic acid encoding a protein associated with bipolar affective
PT disorder, which is used for diagnosis, prophylaxis and therapy of
PT neuropsychiatric disorders, such as bipolar affective disorder.
XX

XX EST AAS26679/AI589129 complete sequence.

DE Human; Bipolar Affective Disorder; BAD; Depression-Associated feature;

XX DF; Depression-Associated protein isoform; DPI; Cerebro-spinal fluid;

KW CSF; antidepressant; antimanic; nootropic; tranquiliser; neuroleptic;

KW attention deficient disorder; schizoaffective disorder; AAS326679; ss;

KW unipolar affective disorder; EST; expressed sequence tag; AI589129.

XX Homo sapiens.

OS

XX WO200163294-A2.

PN 30-AUG-2001.

PD

XX 23-FEB-2001; 2001WO-GB000791.

PF 24-FEB-2000; 2000GB-00004412.

XX 08-DEC-2000; 2000GB-00030050.

PR 12-DEC-2000; 2000US-0254830P.

XX (OXFO-) OXFORD GLYSCSCIENCES UK LTD.

PA Herath HMAc, Parekh RB, Rohlf C;

XX WPI; 2001-582081/65.

DR P-PSDB; AAU26557.

XX Preparation for diagnosing or treating bipolar affected disorder (BAD) or

PT unipolar depression, or for screening for modulators, comprises a BAD-

PT associated protein isoform.

XX Disclosure; Fig 2A; 163pp; English.

PS

XX The invention relates to a preparation comprising an isolated Bipolar

CC Affected Disorder (BAD)-Associated Protein Isoform (DPIs). The DPI's are

CC used to screen, diagnose or prognosis of BAD or unipolar depression,

CC determine the stage or severity of BAD or unipolar depression, identify a

CC subject at risk of developing BAD or unipolar depression, or monitor the

CC effect of therapy in a subject. They are also used to screen for or

CC identify agents that interact with a DPI. These agents, antibodies

CC against the DPIs, and nucleic acids encoding the DPIs are used to treat

CC or prevent BAD or unipolar depression. Diseases that can be treated are

CC attention deficient disorder, a schizoaffective disorder, a bipolar or a

CC unipolar affective disorder. The DPIs are used in proteomics. The

CC proteomic approach of using DPIs for screening, diagnosis or prognosis of

CC BAD or unipolar depression overcomes the problems of using gene

CC expression analysis, such as not being able to obtain central nervous

CC system (CNS) tissue from a living patient under normal circumstances. The

CC present sequence is a PCR fragment generated from two EST (expressed

CC sequence tags) sequences AAS326679 and AI589129, which express a protein

CC containing DPIs 45 and 213

XX

SQ Sequence 1587 BP; 399 A; 375 C; 418 G; 378 T; 0 U; 17 Other;

Query Match 68.3%; Score 1531.6; DB 4; Length 1587;

Best Local Similarity 99.1%; Pred. No. 0;

Matches 1533; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 225 GCTGCGTCCCTGCTGGCTGTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCC 284

Db ||| ||| | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

41 GCGTCTTTGCTGGCTGTGCTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCC 100

QY 285 TCCCCGCCCCGGCGCTGTTAGAGAAAGTCTCCAGTACATTGACCTCCATCAGGATGAA 344

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

101 TCCCCGCCCCGGCGCTGTAGAGAAAGTCTCCAGTACATTGACCTNCATCAGGATGAA 160

QY 345 TTTGTGCAGACGCTGAAGGAGTGGGTGGCCATCCAGAGCGGACTCTGTCCAGCCTGTGCCT 404

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

161 TTTGTGCAGACGCTGAAGGAGTGGGTGGCCATCCAGAGCGGACTCTGTCCAGCCTGTGCCT 220

QY 405 CGCTTCAGACAAGAGCTCTTCAGAATGATGSCGTGGCTGCGGACACGCTGCAGCGCCTG 464

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Db 221 CGCTTCAGACAAGAGCTCTTTCANAAATGATGGCCGTGGTGGACACGCTGCAGCGCCTG 280

QY 465 GGGGCCCGTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTT 524

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

281 GGGGCCCGTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTT 340

QY 525 CCAATACCTCCGTCATCCTGGCCGAACCTGGGGAGCGATCCCACGAAAGGCACCGTGTGC 584

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

341 CCAATACCTCCGTCATCCTGGCCGAACCTGGGGAGCGATCCCACGAAAGGCACCGTGTGC 400

QY 585 TTCTACGGCCACTTGGACGTGCAGCCTGCTGACCGGGCGGATGGGTGCTCAGGACCCC 644

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

401 TTCTACGGCCACTTGGACGTGCAGCCTGCTGACCGGGCGGATGGGTGCTCAGGACCCC 460

QY 645 TATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACAACAAAGGC 704

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

461 TATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACAACAAAGGC 520

QY 705 CCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCCT 764

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

521 CCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCCT 580

QY 765 GTGAATATCAAAATTCATCATTTAGGGGATGGAAGAGGCTGGCTCTGTGCCCTGGAGGAA 824

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

581 GTGAATATCAAAATTCATCATTTAGGGGATGGAAGAGGCTGGCTCTGTGCCCTGGAGGAA 640

QY 825 CTTGTGAAAAAGAAAGGACCGATTCTTCTCTGCTGGACTACATTGTAATTTTCAGAT 884

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

641 CTTGTGAAAAAGAAAGGACCGATTCTTCTCTGCTGGACTACATTGTAATTTTCAGAT 700

QY 885 AACCTGTGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAAACAGCTAC 944

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

701 AACCTGTGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAAACAGCTAC 760

QY 945 TTCATGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATC 1004

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

761 TTCATGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATC 820

QY 1005 CTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGT 1064

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

821 CTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGT 880

QY 1065 CATATCCTGTCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAGAGGAAATAAAT 1124

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

881 CATATCCTGTCCTTGGATCTATGATGAAGTGGTTCCTCTTACAGAAGAGGAAATAAAT 940

QY 1125 ACATACAAAGCCATCCATCTAGACCTAGAAAGAAATACCGGAATAGCAGCGGTTGAGAA 1184

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

941 ACATACAAAGCCATCCATCTAGACCTAGAAAGAAATACCGGAATAGCAGCGGTTGAGAA 1000

QY 1185 TTTCTGTGATATAAGGAGGAGATTCTAATGCACCTCTGGAGGTACCCATCTCTTCT 1244

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1001 TTTCTGTTCGATATAAGGAGGAGATTCTAATGCACCTCTGGAGGTACCCATCTCTTCT 1060

QY 1245 ATTATGGGATCGAGGGCGGCTTTGATGAGCCTGGAACATAAACAGTCATACCTGGCCGA 1304

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1061 ATTATGGGATCGAGGGCGGCTTTGATGAGCCTGGAACATAAACAGTCATACCTGGCCGA 1120

QY 1305 GTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCACATGAATGTCTGCGGTGAAAAA 1364

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1121 GTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCACATGAATGTCTGCGGTGAAAAA 1180

QY 1365 CAGGTGACAGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTCCAAACAAGATGGTT 1424

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1181 CAGGTGACAGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTCCAAACAAGATGGTT 1240

QY 1425 GTTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1484

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1241 GTTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1300

QY 1485 GCAGCAAAAGAGCGATCAGAACAGTGTGTTGGAAACAGAACAGATATGATCCGGGATGGA 1544

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1301 GCAGCAAAAGAGCGATCAGAACAGTGTGTTGGAAACAGAACAGATATGATCCGGGATGGA 1360

Db 941 ACATACAAAGCCCATCCATCTAGACCTAGACCTAGAGAAATACCGAATAGCAGCCGGGTGAGAAA 1000
QY 1185 TTTCTGTTTCGATACTAAGGAGGAGATTCTAATGCACCTCTGGAGGTACCCATCTCTTTCT 1244
Db 1001 TTTCTGTTTCGATACTAAGGAGGAGATTCTAATGCACCTCTGGAGGTACCCATCTCTTTCT 1060
QY 1245 ATTATGGGATCGAGGGCGGTTTGATGAGCGCTGGAACTAAACAGTCAATACCTGGCCGA 1304
Db 1061 ATTATGGGATCGAGGGCGGTTTGATGAGCGCTGGAACTAAACAGTCAATACCTGGCCGA 1120
QY 1305 GTTATAGGAAATTTCAATCCGTCTAGTCCCTCACATGAATGTCTGCGGTGGAAAAA 1364
Db 1121 GTTATAGGAAATTTCAATCCGTCTAGTCCCTCACATGAATGTCTGCGGTGGAAAAA 1180
QY 1365 CAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAAGAAATAGTTCACAAGATGGTT 1424
Db 1181 CAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAAGAAATAGTTCACAAGATGGTT 1240
QY 1425 GTTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1484
Db 1241 GTTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTC 1300
QY 1485 GCAGCAAAAAGCGGATCAGAACAGTGTTTGGAAACAGAACAGATATGATCCGGGATGGA 1544
Db 1301 GCAGCAAAAAGCGGATCAGAACAGTGTTTGGAAACAGAACAGATATGATCCGGGATGGA 1360
QY 1545 TCCACCATTCCAAATGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTCTAATT 1604
Db 1361 TCCACCATTCCAAATGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTCTAATT 1420
QY 1605 CCGCTGGGAGCTGTTGATGATGGAGAACATTCCGAGAATGAGAAAATCAACAGGTGGAAC 1664
Db 1421 CCGCTGGGAGCTGTTGATGATGGAGAACATTCCGAGAATGAGAAAATCAACAGGTGGAAC 1480
QY 1665 TACATAGAGGGAAACCAAAATTATTGTGCTGCCTTTTCTTAGAGATGGCCACAGTCCATTAA 1724
Db 1481 TACATAGAGGGAAACCAAAATTATTGTGCTGCCTTTTCTTAGAGATGGCCACAGTCCATTAA 1540
QY 1725 TCACAAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACTC 1771
Db 1541 TCACAAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTCACTC 1587

RESULT 28
ADO79057

ID ADO79057 standard; DNA; 1587 BP.
XX
AC ADO79057;
XX
DT 26-AUG-2004 (first entry)
XX
DE Schizophrenia-Associated Protein Isoform SPI-238/SPI-240 cDNA.

XX neuroleptic; Schizophrenia; immunospecific binding;
KW Schizophrenia-Associated Protein Isoform; SPI; schizophrenia screening;
KW schizophrenia diagnosis; schizophrenia prognosis;
KW Schizophrenia treatment; drug development; cerebrospinal fluid; human;
KW SPI-238; SPI-240; gene; ds.

XX Homo sapiens.
XX
PN US2004110938-A1.
XX
PD 10-JUN-2004.

XX
PF 23-FEB-2001; 2001US-00791377.
XX
PR 24-FEB-2000; 2000GB-00044156.
PR 28-DEC-2000; 2000US-00750395.

XX
PA (PARE/) PAREKH R B.
PA (HERA/) CHANDRASIRI HERATH H M A.

PA (ROHL/) ROHLFF C.
PA (TERR/) TERRETT J A.
PA (TYSO/) TYSON K L.
XX
PI Parekh RB, Chandrasiri Herath HMA, Rohlff C, Terrett JA, Tyson KL;
XX
DR WPI; 2004-440403/41.
DR P-PSDB; ADO79057.
XX
PT New isolated nucleic acid molecule, useful for diagnosing Schizophrenia,
PT for monitoring the effectiveness of Schizophrenia treatment or for
PT screening agents for treating Schizophrenia.
XX
PS Disclosure; SEQ ID NO 675; 170pp; English.
XX
CC The invention describes an isolated nucleic acid molecule (I) that
CC hybridises to two short nucleic acid sequences and the 1515 amino acid
CC sequence fully defined in the specification. Also described are: a
CC preparation comprising an isolated peptide coded for by the nucleic acid
CC molecule above, or comprising an isolated human protein comprising one or
CC more of the following sequences: Glu-Leu-Asp-Val-Leu-Gln-Gly-Arg, and Gly
CC -Ile-Leu-Ile-Gly-Gln-Glu-Gln-Asp-Thr-Leu-Gly-Gly-Arg; methods for
CC diagnosing Schizophrenia; antibodies capable of immunospecific binding to
CC a Schizophrenia-Associated Protein Isoform (SPI); methods of treating
CC Schizophrenia; and methods of screening for agents that modulate a
CC characteristic (e.g., expression or binding activity) of an SPI, an SPI
CC analogue, or an SPI-related polypeptide. The nucleic acid molecule and
CC encoded proteins, as well as the methods and compositions are useful for
CC screening, diagnosing, and prognosing Schizophrenia, for monitoring the
CC effectiveness of Schizophrenia treatment, for identifying patients most
CC likely to respond to a particular therapeutic treatment and for
CC developing drug. They are also useful for screening modulators of
CC Schizophrenia-Associated Protein Isoform useful for treating
CC Schizophrenia. This sequence encodes schizophrenia-associated protein
CC isoform SPI-238/SPI-240 fusion.

SQ Sequence 1587 BP; 399 A; 375 C; 418 G; 378 T; 0 U; 17 Other;

Query Match 68.3%; Score 1531.6; DB 12; Length 1587;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1533; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 225 GTCGCTCCCTGCTGGCTGTGCTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCC 284
Db 41 GCGTCTTTGCTGGCTGTGCTGCTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCC 100
QY 285 TCCCCGCCCCCGCGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGAA 344
Db 101 TCCCCGCCCCCGCGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTNCATCAGGATGAA 160
QY 345 TTTGTGCAGACGCTGAAGGAGTGGTGCCATCGAGAGCGACTCTGTCCAGCCTGTGCCT 404
Db 161 TTTGTGCAGACGCTGAAGGAGTGGTGCCATCGAGAGCGACTCTGTCCAGCCTGTGCCT 220
QY 405 CGCTTCAGACAAGAGCTCTTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGAGCGCCTG 464
Db 221 CGCTTCAGACAAGAGCTCTTCANAATGATGSCCGTGGCTGCGGACACGCTGAGCGCCTG 280
QY 465 GGGGCCCCGTGGCCCTCGGTGGACATGGTCTCCTCAGCAGCTGCCCGATGGTCAGAGTCTT 524
Db 281 GGGGCCCCGTGGCCCTCGGTGGACATGGTCTCCTCAGCAGCTGCCCGATGGTCAGAGTCTT 340
QY 525 CCAATACCTCCCGTCATCCTGGCCGAACCTGGGGAGCGATCCCACGAAAGGCACCGTGTGC 584
Db 341 CCAATACCTCCCGTCATCCTGGCCGAACCTGGGGAGCGATCCCACGAAAGGCACCGTGTGC 400
QY 585 TTCTACGGCCACTTGGACGTCAGCCTGTCGACCGGGCGGATGGGTGGCTCAGGACCCC 644
Db 401 TTCTACGGCCACTTGGACGTCAGCCTGTCGACCGGGCGGATGGGTGGCTCAGGACCCC 460
QY 645 TATGTGCTGACGGAGGTAGACCGGAAACTTTATGGACGAGGAGCGACCGCAACAAAGGC 704
Db 461 TATGTGCTGACGGAGGTAGACCGGAAACTTTATGGACGAGGAGCGACCGCAACAAAGGC 520

Qy	705	CTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCCT	764
Db	521	CTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCCT	580
Qy	765	GTGAATATCAAAATTCATATTGAGGGGATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAA	824
Db	581	GTGAATATCAAAATTCATATTGAGGGGATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAA	640
Qy	825	CTTGTGGAAAAAGAAAAGGACCGATTCTTCTCTGTGTGAGCTACATTGTAATTCAGAT	884
Db	641	CTTGTGGAAAAAGAAAAGGACCGATTCTTCTCTGTGTGAGCTACATTGTAATTCAGAT	700
Qy	885	AACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAAACAGCTAC	944
Db	701	AACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAAACAGCTAC	760
Qy	945	TTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATC	1004
Db	761	TTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATC	820
Qy	1005	CTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGT	1064
Db	821	CTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGT	880
Qy	1065	CATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAGAGGAAATAAAT	1124
Db	881	CATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAGAGGAAATAAAT	940
Qy	1125	ACATACAAAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGGTTGAGAAA	1184
Db	941	ACATACAAAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGGTTGAGAAA	1000
Qy	1185	TTTCTGTTGATACTAAGGAGGAGATTCTAATGCACCTCTGAGGTTACCCATCTCTTTCT	1244
Db	1001	TTTCTGTTGATACTAAGGAGGAGATTCTAATGCACCTCTGAGGTTACCCATCTCTTTCT	1060
Qy	1245	ATTCAATGGGATCGAGGGCGGTTTGATGAGCCTGGAACTAAACAGTCATACCTGGCCGA	1304
Db	1061	ATTCAATGGGATCGAGGGCGGTTTGATGAGCCTGGAACTAAACAGTCATACCTGGCCGA	1120
Qy	1305	GTATAGGAAAAATTTTCAATCCGTCTAGTCCCTCACATGAATGTGTCTGCGGTGGA AAA	1364
Db	1121	GTATAGGAAAAATTTTCAATCCGTCTAGTCCCTCACATGAATGTGTCTGCGGTGGA AAA	1180
Qy	1365	CAGTGACACGACATCTTGAGATGTGTTTCTCCAAAAGAAATAGTTCACAAAGATGGTT	1424
Db	1181	CAGTGACACGACATCTTGAGATGTGTTTCTCCAAAAGAAATAGTTCACAAAGATGGTT	1240
Qy	1425	GTTTCCATGACTCTAGGACTACACCCGTGGATTGCAAAATFTGATGACACCCAGTATCTC	1484
Db	1241	GTTTCCATGACTCTAGGACTACACCCGTGGATTGCAAAATFTGATGACACCCAGTATCTC	1300
Qy	1485	GCAGCAAAAAGAGCGATCAGAACACTGTTTGGAACAGAACCCAGATATGATCCGGATGGA	1544
Db	1301	GCAGCAAAAAGAGCGATCAGAACACTGTTTGGAACAGAACCCAGATATGATCCGGATGGA	1360
Qy	1545	TCCACCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCCCAAGAGCGTGGTGCTAATT	1604
Db	1361	TCCACCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCCCAAGAGCGTGGTGCTAATT	1420
Qy	1605	CCGTGGGAGCTGTTGATGATGGAGAACATTTCGCAGAATGAGAAAATCAACAGGTGGAAC	1664
Db	1421	CCGTGGGAGCTGTTGATGATGGAGAACATTTCGCAGAATGAGAAAATCAACAGGTGGAAC	1480
Qy	1665	TACATAGAGGGAACCAAAATATTGCTGCCTTTTCTTAGAGATGGCCCGCTCCATTAA	1724
Db	1481	TACATAGAGGGAACCAAAATATTGCTGCCTTTTCTTAGAGATGGCCCGCTCCATTAA	1540
Qy	1725	TCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTACCCCTC	1771
Db	1541	TCACAGAACCTTCTAGTCTGATCTGATCCACTGACAGATTACCCCTC	1587

RESULT 29	
ID AAS97191	standard; cDNA; 1524 BP.
XX	
AC AAS97191;	
XX	
DT 26-FEB-2002	(first entry)
XX	
DE Human metalloprotease partial DNA sequence #20.	
XX	
KW Human; protease; PCR primer; cytostatic; immunomodulator; cardiant;	
KW vasotropic; antimigraine; analgesic; endocrine; endocrine; tranquiliser;	
KW hypertensive; hypotensive; neuroleptic; neuroprotective; anabolic;	
KW anorectic; antiinflammatory; aspartyl protease; cysteine protease;	
KW metalloprotease; serine protease; cancer; haematopoietic; breast; colon;	
KW lung; prostrate; cervical; brain; ovarian; bladder; kidney; pain;	
KW immune-related disease; cardiovascular disease; neuronal disease;	
KW migraine; sexual dysfunction; mood disorder; attention disorder;	
KW cognition disorder; hypotension; hypertension; psychotic disorder;	
KW dyskinesia; metabolic disorder; inflammatory disorder; ss.	
XX	
OS Homo sapiens.	
XX	
PN WO200183782-A2.	
PD	
XX 08-NOV-2001.	
PF	
XX 04-MAY-2001; 2001WO-US014431.	
PR	
XX 04-MAY-2000; 2000US-0201879P.	
XX	
PA (SUGE-) SUGEN INC.	
XX	
PI Plowman GD, Whyte D, Sudarsanam S, Manning G, Caenepeel S;	
PI Payne V;	
XX	
DR WPI; 2002-041502/05.	
DR P-PSDB; AAU72908.	
XX	
PT Novel protease polypeptide useful for screening for substances that may	
PT be used to treat, e.g., cancers, immune-related diseases, cardiovascular	
PT disease, migraine, pain, psychotic and inflammatory disorders.	
XX	
PS Claim 30; Fig 1U-V; 232pp; English.	
XX	
CC The invention relates to an isolated, enriched, or purified protease	
CC polypeptide (I) and polynucleotide (II) encoding (I). (I) may be used to	
CC screen for substances (S) that may modulate its activity. Administering S	
CC (which modulates protease activity in vitro) may be used to treat a	
CC disease or disorder selected from cancers (e.g., of tissues, of blood or	
CC haematopoietic origin, of the breast, colon, lung, prostate, cervical,	
CC brain, ovarian, bladder or kidney), immune-related diseases and	
CC disorders, cardiovascular disease, brain or neuronal-associated diseases	
CC (e.g., central or peripheral nervous system diseases, migraine, pain,	
CC sexual dysfunction, mood disorders, attention disorders, cognition	
CC disorders and dyskinesias), metabolic disorders and inflammatory	
CC disorders. (I) may also be useful as a diagnostic tool for a disease or	
CC disorder such as those above. AAS97159-AAS97195 represent human protease	
CC coding sequences and primers of the invention	
XX	
SQ Sequence 1524 BP; 386 A; 366 C; 413 G; 359 T; 0 U; 0 Other;	

Query Match 68.0%; Score 1524; DB 6; Length 1524;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1524; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	201	ATGGATCCCAAACTCGGAGAAATGGCTCGTCCCTGCTGCTGCTGCTGCTGCTG 260
Db	1	ATGGATCCCAAACTCGGAGAAATGGCTCGTCCCTGCTGCTGCTGCTGCTGCTG 60

Qy	261	GAGCGGGCATGTTCTCTCACCCCTCCCGCCCCCGGGCGCTGTAGAGAAAGTCTTCCAG 320
----	-----	--

Db	61	 GAGCGGGCATGTTCTCTCTCACCCCTCCCGGCCCGCGCTGTTAGAGAAAGTCTTCAG	120
QY	321	TACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGCCATCGAG	380
Db	121	TACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGCCATCGAG	180
QY	381	AGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGGCCGTG	440
Db	181	AGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGGCCGTG	240
QY	441	GCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGTCCCTCAG	500
Db	241	GCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGTCCCTCAG	300
QY	501	CAGCTGCCCGATGGTCAGAGCTTCCAAATACCTCCCGTCATCTCGGCCGAACCTGGSGAGC	560
Db	301	CAGCTGCCCGATGGTCAGAGCTTCCAAATACCTCCCGTCATCTCGGCCGAACCTGGSGAGC	360
QY	561	GATCCCAAGAAAGGCACCGCTGTGCTTCTACGGGCCACTTGGACGTGCAGCCTGCTGACCGG	620
Db	361	GATCCCAAGAAAGGCACCGCTGTGCTTCTACGGGCCACTTGGACGTGCAGCCTGCTGACCGG	420
QY	621	GGCGATGGTGGCTCACGGACCCCTATGTCTGACGGAGGTAGACGGGAACTTTATGGA	680
Db	421	GGCGATGGTGGCTCACGGACCCCTATGTCTGACGGAGGTAGACGGGAACTTTATGGA	480
QY	681	CGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC	740
Db	481	CGAGGAGCGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC	540
QY	741	AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGATGGAAGAG	800
Db	541	AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATCATTTAGGGGATGGAAGAG	600
QY	801	GCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAGAAAGAAAGGACCGATTCCTTCTCTGGT	860
Db	601	GCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAGAAAGAAAGGACCGATTCCTTCTCTGGT	660
QY	861	GTGGACTACATTGTAAATTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACT	920
Db	661	GTGGACTACATTGTAAATTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACT	720
QY	921	TATGGAACCCGGGGAAACAGCTACTTCATGGTGGAGGTGAATGCAGAGACCAGGATTTT	980
Db	721	TATGGAACCCGGGGAAACAGCTACTTCATGGTGGAGGTGAATGCAGAGACCAGGATTTT	780
QY	981	CACCTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTC	1040
Db	781	CACCTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTC	840
QY	1041	GGTAGCCTGGTAGACTCGTCTGGTCATATCCTGTCTCCCTGGAAATCTATGATGAAGTGGTT	1100
Db	841	GGTAGCCTGGTAGACTCGTCTGGTCATATCCTGTCTCCCTGGAAATCTATGATGAAGTGGTT	900
QY	1101	CCTCTTACAGAAGAGGAATAAATACATACAAAGCCATCCATCTAGACCTAGAGAATAC	1160
Db	901	CCTCTTACAGAAGAGGAATAAATACATACAAAGCCATCCATCTAGACCTAGAGAATAC	960
QY	1161	CGGAATAGCAGCCGGTTGAGAAAATTTCTGTTCCGATACTAAGGAGGAGATTCTTAATGCAC	1220
Db	961	CGGAATAGCAGCCGGTTGAGAAAATTTCTGTTCCGATACTAAGGAGGAGATTCTTAATGCAC	1020
QY	1221	CTCTGGAGGTACCCATCTCTTTTCTATTCTATGGGATCGAGGGCGCGTTTGTATGAGCCTGGA	1280
Db	1021	CTCTGGAGGTACCCATCTCTTTTCTATTCTATGGGATCGAGGGCGCGTTTGTATGAGCCTGGA	1080
QY	1281	ACTAAAAACAGTCAATACCTGGSCGAGTTATAGGAAAAATTTTCAATCCGCTCTAGTCCCTCAC	1340
Db	1081	ACTAAAAACAGTCAATACCTGGSCGAGTTATAGGAAAAATTTTCAATCCGCTCTAGTCCCTCAC	1140
QY	1341	ATGAATGTGTCTGCGGTGGAAGAAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAA	1400

Db 1141 ATGAATGTCTGCGGTGGAAAAAAGCTGACACGACATCTTTGAAGATGTGTTCTCCAA 1200
 QY 1401 AGAAATAGTTCACAAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCA 1460
 Db 1201 AGAAATAGTTCACAAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCA 1260
 QY 1461 AATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTTGGAACA 1520
 Db 1261 AATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTTGGAACA 1320
 QY 1521 GAACAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATC 1580
 Db 1321 GAACAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATC 1380
 QY 1581 GTCCACAAGAGCGTGGTCTAATTCCGCTGGGAGCTGTTGATGATGGAGAACATTCCGAG 1640
 Db 1381 GTCCACAAGAGCGTGGTCTAATTCCGCTGGGAGCTGTTGATGATGGAGAACATTCCGAG 1440
 QY 1641 AATGAGAAAATCAACAGGTGGAACACTACATAGAGGGAAACCAAATATTGCTGCCTTTTC 1700
 Db 1441 AATGAGAAAATCAACAGGTGGAACACTACATAGAGGGAAACCAAATATTGCTGCCTTTTC 1500
 QY 1701 TTAGAGATGCCCCAGCTCCATTAA 1724
 Db 1501 TTAGAGATGCCCCAGCTCCATTAA 1524

 RESULT 30
 ABL58477
 ID ABL58477 standard; cDNA; 1521 BP.
 AC ABL58477;
 XX
 DT 30-JUL-2002 (first entry)
 XX
 DE Human metalloprotease, 55054 coding sequence.
 XX
 KW 55054; human; metalloprotease; neural cell; cerebral injury; vulnerary;
 KW gene; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 CDS 1..1521
 FT /*tag= a
 FT /product= "metalloprotease 55054"
 XX
 PN WO200226948-A2.
 XX
 PD 04-APR-2002.
 XX
 PF 25-SEP-2001; 2001WO-US030016.
 XX
 PR 25-SEP-2000; 2000US-0235055P.
 XX
 PA (MILL-) MILLENNIUM PHARM INC.
 XX
 PI Kapeller-Libermann R;
 XX
 DR WPI; 2002-405051/43.
 DR P-PSDB; ABB07950.
 XX
 PT Identifying modulator of neural cell growth or transition metal
 PT neurotoxicity, involves contacting test compound with novel human
 PT metalloprotease polypeptide and determining if the polypeptide binds the
 PT test compound.
 XX
 PS Claim 7; Fig 1A-D; 105pp; English.
 XX
 CC The invention provides a method for identifying a modulator of neural
 CC cell growth, cerebral injury or wound healing, transition metal
 CC neurotoxicity, histamine production, neural/hepatic cell proliferation or
 CC degradation of extracellular matrix, neurotransmitter or soluble

intracellular/extracellular dipeptide. The method involves contacting a test compound and metalloprotease polypeptide, selected from a human metalloprotease polypeptide, termed 55054, and determining if 55054 binds the test compound. The metalloprotease, 55054 is useful for making a pharmaceutical composition for inhibiting the ability of a cell selected from a neural cell such as glial cell or neuron (a sensory neuron or olfactory sensory neuron), astrocyte, oligodendrocyte and ensheathing cell, to cleave a polypeptide. The present sequence represents the coding sequence of the human metalloprotease, 55054			
Sequence 1521 BP; 384 A; 366 C; 413 G; 358 T; 0 U; 0 Other;			
Query Match 67.8%; Score 1521; DB 6; Length 1521; Best Local Similarity 100.0%; Pred. No. 0; Matches 1521; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
QY	201 ATGGATCCCAAACTCGGAGAAATGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 260		
Db	1 ATGGATCCCAAACTCGGAGAAATGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 60		
QY	261 GAGCGGGCATGTTCTCCTCACCTCCCGCCCCCGCGCTGTTAGAGAAAGTCTTCCAG 320		
Db	61 GAGCGGGCATGTTCTCCTCACCTCCCGCCCCCGCGCTGTTAGAGAAAGTCTTCCAG 120		
QY	321 TACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGGCCATCGAG 380		
Db	121 TACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGGTGGCCATCGAG 180		
QY	381 AGCGACTCTGTCCAGCCTGTGCCCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGGCCGTG 440		
Db	181 AGCGACTCTGTCCAGCCTGTGCCCTCGCTTCAGACAAGAGCTCTTCAGAAATGATGGCCGTG 240		
QY	441 GCTCGGGACACGCTGCAGCGCCTGGGGCCCCGTGTGGCCTCGGTGGACATGGGTCCCTCAG 500		
Db	241 GCTCGGGACACGCTGCAGCGCCTGGGGCCCCGTGTGGCCTCGGTGGACATGGGTCCCTCAG 300		
QY	501 CAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACCTGGGGAGC 560		
Db	301 CAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAACCTGGGGAGC 360		
QY	561 GATCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGACCCGG 620		
Db	361 GATCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGACCCGG 420		
QY	621 GCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAACTTTATGGA 680		
Db	421 GCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAACTTTATGGA 480		
QY	681 CGAGGAGCGACCGACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC 740		
Db	481 CGAGGAGCGACCGACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC 540		
QY	741 AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGGATGGAAGAG 800		
Db	541 AGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGGATGGAAGAG 600		
QY	801 GCTGCTCTGTTGCCCTGGAGGAACCTGTGGAAAAAGAAAGGACCGAATCTTCTCTGGT 860		
Db	601 GCTGCTCTGTTGCCCTGGAGGAACCTGTGGAAAAAGAAAGGACCGAATCTTCTCTGGT 660		
QY	861 GTGGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACT 920		
Db	661 GTGGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACT 720		
QY	921 TATGGAACCCGGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTT 980		
Db	721 TATGGAACCCGGGGGAACAGCTACTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTT 780		
QY	981 CACTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGCTTCTTCTC 1040		
Db	781 CACTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGCTTCTTCTC 840		
QY	1041 GGTAGCCTGGTAGACTCGTCTGGTCAATATCCTGGTCCCTGGAATCTATGATGAAGTGGTT 1100		
Db	841 GGTAGCCTGGTAGACTCGTCTGGTCAATATCCTGGTCCCTGGAATCTATGATGAAGTGGTT 900		
QY	1101 CCTCTTACAGAAAGAGGAAATAAATACATACATACAAAGCCATCCATCTAGACCTAGAGAATAC 1160		
Db	901 CCTCTTACAGAAAGAGGAAATAAATACATACATACAAAGCCATCCATCTAGACCTAGAGAATAC 960		
QY	1161 CGGAATAGCAGCCGGGTTGAGAAAATTTCTGTTCGATCTAAAGGAGAGATCTAATGCAC 1220		
Db	961 CGGAATAGCAGCCGGGTTGAGAAAATTTCTGTTCGATCTAAAGGAGAGATCTAATGCAC 1020		
QY	1221 CTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGGTTTGTATGAGCCTGGA 1280		
Db	1021 CTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGGTTTGTATGAGCCTGGA 1080		
QY	1281 ACTAAAACAGTCACTACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCAC 1340		
Db	1081 ACTAAAACAGTCACTACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTCCCTCAC 1140		
QY	1341 ATGAATGTGTCTCGCGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTCTCCAAA 1400		
Db	1141 ATGAATGTGTCTCGCGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTCTCCAAA 1200		
QY	1401 AGAAATAGTTCACAAAGATGGTGTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCA 1460		
Db	1201 AGAAATAGTTCACAAAGATGGTGTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCA 1260		
QY	1461 AATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTCGGAACA 1520		
Db	1261 AATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTCGGAACA 1320		
QY	1521 GAACAGATATGATCCGGGATGGATCCACCATTCCAAATTGCCAAAATGTTCCAGGAGATC 1580		
Db	1321 GAACAGATATGATCCGGGATGGATCCACCATTCCAAATTGCCAAAATGTTCCAGGAGATC 1380		
QY	1581 GTCCACAAGAGCGTGGTCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCGCAG 1640		
Db	1381 GTCCACAAGAGCGTGGTCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCGCAG 1440		
QY	1641 AATGAGAAAATCAACAGGTGGAACCTACATAGAGGGAACCAAATTTATTGCTGCTTTTC 1700		
Db	1441 AATGAGAAAATCAACAGGTGGAACCTACATAGAGGGAACCAAATTTATTGCTGCTTTTC 1500		
QY	1701 TTAGAGATGGCCCAGCTCCAT 1721		
Db	1501 TTAGAGATGGCCCAGCTCCAT 1521		
RESULT 31			
AAH27154			
ID	AAH27154	standard; cDNA; 1524 BP.	
XX			
AC	AAH27154;		
XX			
DT	08-AUG-2001	(first entry)	
XX			
DE	Human carnosinase cDNA.		
XX			
KW	Human; carnosinase; carnosine; anserine; hydrolysis; brain; epilepsy;		
KW	Alzheimer's disease; cognitive disorder; development abnormality;		
KW	foetal deficiency; neurodegenerative disorder; schizophrenia; ss;		
KW	amyotrophic lateral sclerosis; Parkinson's disease; ischaemic shock.		
XX			
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	CDS	1..1524	
FT		/*tag= a	
FT		/partial	
FT		/product= "Carnosinase"	
FT		/note= "No stop codon given"	
XX			
PN	EP1097997-A1.		

XX 09-MAY-2001.
PD
XX
PF 03-NOV-1999; 99EP-00402723.
XX
PR 03-NOV-1999; 99EP-00402723.
XX
PA (SNFI) SANOFI-SYNTHELABO.
XX
PI Saudek V, Smirnova-Robert T, Teufel M;
XX
DR WPI; 2001-319238/34.
DR P-PSDB; AAB97262.
XX
PT Novel isolated human carnosinase polypeptide useful for prevention and/or
PT treatment of Alzheimer's disease, amyotrophic lateral sclerosis,
PT Parkinson's disease, schizophrenia, ischemic shock, and epilepsy.
XX
PS Claim 1; Page 17-19; 27pp; English.
XX
CC The present sequence represents cDNA encoding human carnosinase (see
CC AAB97262). Carnosinase is a glycoprotein with an isoelectric point of
CC 4.4. The active enzyme is a dimer, with the two subunits being connected
CC by at least one disulphide bond. The enzyme is especially active in
CC hydrolysing carnosine and anserine. Carnosinase is found in high
CC concentration in the brain. Homocarnosine is hydrolysed in the brain, and
CC carnosine and anserine are split in the blood stream by carnosinase.
CC Carnosine and anserine are thought to act as cytosol buffering agents.
CC Carnosinase its agonists and antagonists and compositions containing them
CC are useful for the prevention and/or treatment of Alzheimer's disease and
CC cognitive disorders, development abnormalities and foetal deficiencies,
CC neurodegenerative disorders such as amyotrophic lateral sclerosis,
CC Parkinson's disease, schizophrenia, abnormal mental states, ischaemic
CC shock, and epilepsy
XX
SQ Sequence 1524 BP; 384 A; 366 C; 414 G; 360 T; 0 U; 0 Other;

Query Match 67.2%; Score 1506.4; DB 4; Length 1524;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1520; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

QY 201 ATGGATCCCAACTCGGAGAAATGGCTCGCTCCCTGGCTGGCTG---TGCTGCTGCTGCTG 257
Db 1 ATGGATCCCAACTCGGAGAAATGGCTCGCTCCCTGGCTGGCTGCTGCTGCTGCTGCTG 60

QY 258 CTGGAGCGCGGCAATGTTCTCTCCTCACCTCCCGCCCCCGCGCTGTAAGAGTCTTC 317
Db 61 CTGGAGCGCGGCAATGTTCTCCTCACCTCCCGCCCCCGCGCTGTTAGAGAAAGTCTTC 120

QY 318 CAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGCCATC 377
Db 121 CAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGCCATC 180

QY 378 GAGAGCGACTCTGTCCAGCCTGTGCCCTCGCTTCAGACAAGAGCTCTTCAGAATGAGCC 437
Db 181 GAGAGCGACTCTGTCCAGCCTGTGCCCTCGCTTCAGACAAGAGCTCTTCAGAATGAGCC 240

QY 438 GTGGCTGCGGACCGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTCCT 497
Db 241 GTGGCTGCGGACCGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTCCT 300

QY 498 CAGCAGCTGCCGATGGTTCAGAGTCTTCCAAATACCTCCCGTCATCCTGGCCGAAGTGGG 557
Db 301 CAGCAGCTGCCGATGGTTCAGAGTCTTCCAAATACCTCCCGTCATCCTGGCCGAAGTGGG 360

QY 558 AGCGATCCCAAGGACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGAC 617
Db 361 AGCGATCCCAAGGACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGAC 420

QY 618 CGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAACTTTAT 677
Db 421 CGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAACTTTAT 480

QY 678 GGACGAGGAGCGACCGACAACAAAGGCCCTGCTGTGGCTTGGATCAATGCTGTGAGCGCC 737
Db 481 GGACGAGGAGCGACCGACAACAAAGGCCCTGCTGTGGCTTGGATCAATGCTGTGAGCGCC 540

QY 738 TTCAGAGCCCTGGAGCAAGATCTTCTCTGAATATCAAATTCATCATTTAGGGGATGGAA 797
Db 541 TTCAGAGCCCTGGAGCAAGATCTTCTCTGAATATCAAATTCATCATTTAGGGGATGGAA 600

QY 798 GAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGATTTCTCTCT 857
Db 601 GAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGATTTCTCTCT 660

QY 858 GGTGTGGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATC 917
Db 661 GGTGTGGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATC 720

QY 918 ACTTATGGAAACCGGGGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGAT 977
Db 721 ACTTATGGAAACCGGGGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGAT 780

QY 978 TTTCACCTCAGGAACCTTTGGTGGCATCCTTTCATGAACCAATGGCTGATCTGGTGTCTCTT 1037
Db 781 TTTCACCTCAGGAACCTTTGGTGGCATCCTTTCATGAACCAATGGCTGATCTGGTGTCTCTT 840

QY 1038 CTCGGTAGCCTCGTAGACTCGTCTGTCATATCCTGGTCCCTGGAATCTATGATGAAGTG 1097
Db 841 CTCGGTAGCCTCGTAGACTCGTCTGTCATATCCTGGTCCCTGGAATCTATGATGAAGTG 900

QY 1098 GTTCCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAAGAA 1157
Db 901 GTTCCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAGAAAGAA 960

QY 1158 TACCGGAATAGCAGCCGGGTGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTCTAATG 1217
Db 961 TACCGGAATAGCAGCCGGGTGAGAAATTTCTGTTTCGATACTAAGGAGGAGATTCTAATG 1020

QY 1218 CACCTCTGGAGTACCCATCTCTTTCTATTCATGGGATCGAGGGCGGCTTTCATGAGCCT 1277
Db 1021 CACCTCTGGAGTACCCATCTCTTTCTATTCATGGGATCGAGGGCGGCTTTCATGAGCCT 1080

QY 1278 GGAACATAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTCCCT 1337
Db 1081 GGAACATAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGCTAGTCCCT 1140

QY 1338 CACATGAATGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTCTCC 1397
Db 1141 CACATGAATGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTCTCC 1200

QY 1398 AAAAGAAATAGTCCAAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATT 1457
Db 1201 AAAAGAAATAGTCCAAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATT 1260

QY 1458 GCAAATATTGATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAGAACAGTGTTTGGA 1517
Db 1261 GCAAATATTGATGACACCCAGTATCTCGCAGCAAAAGAGCGATCAGAACAGTGTTTGGA 1320

QY 1518 ACAGAACCCAGATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGGAG 1577
Db 1321 ACAGAACCCAGATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAGGAG 1380

QY 1578 ATCGTCCACAAGAGCGTGGTGTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCG 1637
Db 1381 ATCGTCCACAAGAGCGTGGTGTAAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCG 1440

QY 1638 CAGAATGAGAAATCAACAGGTGGAACATACATAGAGGGGAACCAAAATTTATTCGCTGCCTTT 1697
Db 1441 CAGAATGAGAAATCAACAGGTGGAACATACATAGAGGGGAACCAAAATTTATTCGCTGCCTTT 1500

QY 1698 TTCTTAGAGATGGCCCGAGCTCCAT 1721
Db 1501 TTCTTAGAGATGGCCCGAGCTCCAT 1524

QY 1810 GAGAATTGGGTCTAGTATAGTACATTTTCCCTT-CCATTTAAATGTCTTGGGATATCT 1868
|||
Db 403 GAGAATTGGGTCTAGTATAGTACATTTTCCCTTCCCATTTAAATGTCTTGGGATATCT 344

QY 1869 GGATCAGTAATAAATATTTCAAAGGCACAGATGTTGGAAATGGTTTAAGGTCCCCCACT 1928
|||
Db 343 GGATCAGTAATAAATATTTCAAAGGCACAGATGTTGGAAATGGTTTAAGGTCCCCCACT 284

QY 1929 GCACACCTTCCTCAAGTCATAGCTGCTTGCGAGCAACTGATTTCCCCAAGTCCTGTGCAA 1988
|||
Db 283 GCACACCTTCCTCAAGTCATAGCTGCTTGCGAGCAACTGATTTCCCCAAGTCCTGTGCAA 224

QY 1989 TAGCCCCAGGATGGATTCCTTCCAAACCTTTTAGCATATCTCCAACCTTGCAATTTGATT 2048
|||
Db 223 TAGCCCCAGGATGGATTCCTTCCAAACCTTTTAGCATATCTCCAACCTTGCAATTTGATT 164

QY 2049 GGCATAATCACCTCCGGTTTGCTTTCTAGGTCCTCAAGTCTCGTGACACATAATCATTC 2108
|||
Db 163 GGCATAATCACCTCCGGTTTGCTTTCTAGGTCCTCAAGTCTCGTGACACATAATCATTC 104

QY 2109 ATCCAATGATCGCCTTTGCTTTTACCACCTCTTTTCCCTTTTATCTTATTAATAAATAATGTTGG 2168
|||
Db 103 ATCCAATGATCGCCTTTGCTTTTACCACCTCTTTTCCCTTTTATCTTATTAATAAATAATGTTGG 44

QY 2169 TCTCCACCACCTGNCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAA 2211
|||
Db 43 TCTCCAAAGAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 1

RESULT 33
AAI59305
ID AAI59305 standard; cDNA; 1343 BP.
XX
AC AAI59305;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polynucleotide SEQ ID NO 1508.
XX
KW Human; nootropic; immunosuppressant; cytosolic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia; ss.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US034263.
XX
PR 23-DEC-1999; 99US-00471275.
PR 21-JAN-2000; 2000US-00488725.
PR 25-APR-2000; 2000US-00552317.
PR 20-JUN-2000; 2000US-00598042.
PR 19-JUL-2000; 2000US-00620312.
PR 03-AUG-2000; 2000US-00653450.
PR 14-SEP-2000; 2000US-00662191.
PR 19-OCT-2000; 2000US-00693036.
PR 29-NOV-2000; 2000US-00727344.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;
PI Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI; 2001-442253/47.
DR P-PSDB; AAM40149.

XX Novel nucleic acids and polypeptides, useful for treating disorders such
PT as central nervous system injuries.
PT
XX Claim 1; SEQ ID NO 1508; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and the
CC encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytosolic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders. Note: The sequence data for this patent did not form
CC part of the printed specification
XX
SQ Sequence 1343 BP; 389 A; 297 C; 323 G; 331 T; 0 U; 3 Other;

Query Match 53.7%; Score 1203.4; DB 4; Length 1343;
Best Local Similarity 98.7%; Pred. No. 7.1e-254;
Matches 1213; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 672 CTTTATGGACGAGGACCGACCAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTG 731
|||
Db 109 CTCTACGGTCTTAAGAGCGACCTGCATGAGAGACCTTGACTGGCTTGGATCAATGCTGTG 168

QY 732 AGCGCTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAATTCATATTGAGGGG 791
|||
Db 169 AGCGCTTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAATTCATATTGAGGGG 228

QY 792 ATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGATTC 851
|||
Db 229 ATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGAAAAAGAAAGGACCGATTC 288

QY 852 TTCTCTGCTGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCA 911
|||
Db 289 TTCTCTGCTGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCA 348

QY 912 GCAATCATTATGGAACCCGGGGAAACAGCTACTTTCATGTTGGAGGTGAATGCAGAGAC 971
|||
Db 349 GCAATCATTATGGAACCCGGGGAAACAGCTACTTTCATGTTGGAGGTGAATGCAGAGAC 408

QY 972 CAGGATTTTCACTCAGGAACCTTTTGGTGATCCTTTCATGAACCAATGGCTGATCTGGTT 1031
|||
Db 409 CAGGATTTTCACTCAGGAACCTTTTGGTGATCCTTTCATGAACCAATGGCTGATCTGGTT 468

QY 1032 GCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCCTGGTCCCTGGAATCTATGAT 1091
|||
Db 469 GCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCCTGGTCCCTGGAATCTATGAT 528

QY 1092 GAAGTGGTTCTCTTACAGAAGAGGAAATAAATAACATACAAAGCCATCCATCTAGACCTA 1151
|||
Db 529 GAAGTGGTTCTCTTACAGAAGAGGAAATAAATAACATACAAAGCCATCCATCTAGACCTA 588

QY 1152 GAAGAATACCGGAATAGCAGCCGGGTTTGAGAAATTTCTGTTTCGATATACTAAGGAGGAGATT 1211
|||
Db 589 GAAGAATACCGGAATAGCAGCCGGGTTTGAGAAATTTCTGTTTCGATATACTAAGGAGGAGATT 648

QY 1212 CTAATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGCGCGTTTGTAT 1271
|||
Db 649 CTAATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGCGCGTTTGTAT 708

QY 1272 GAGCCTGGAACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTCTA 1331
|||
Db 709 GAGCCTGGAACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTTCAATCCGTCTA 768

QY 1332 GTCCCTCACATGAATGTGTCTGCGGTGAAAAAACAGGTGACACGACATCTTGAAGATGTG 1391

Db 769 GTCCCTCACATGAATGTCTCGGTGGAACACAGGTGACGACATCTTGAAGATGTG 828
Qy 1392 TTCTCCAAAAGAAATAGTTCACAAGATGGTTGTTCCATGACTCTAGGACTACACCG 1451
Db 829 TTCTCCAAAAGAAATAGTTCACAAGATGGTTGTTCCATGACTCTAGGACTACACCG 888
Qy 1452 TGGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTG 1511
Db 889 TGGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTG 948
Qy 1512 TTTGGAACAGAACCATGATATGATCCGGGATGGATCCACCATCCCAATTGCCAAAATGTTT 1571
Db 949 TTTGGAACAGAACCATGATATGATCCGGGATGGATCCACCATCCCAATTGCCAAAATGTTT 1008
Qy 1572 CAGGATCGTCCACAAGAGCGTGTGCTAAATCCCGCTGGAGCTGTTGATGATGGAGAA 1631
Db 1009 CAGGATCGTCCACAAGAGCGTGTGCTAAATCCCGCTGGAGCTGTTGATGATGGAGAA 1068
Qy 1632 CATTCGAGAAATGAGAAAATCAACAGGTGGAACACTACATAGAGGAAACCAAAATATTGCT 1691
Db 1069 CATTCGAGAAATGAGAAAATCAACAGGTGGAACACTACATAGAGGAAACCAAAATATTGCT 1128
Qy 1692 GCCTTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGA 1751
Db 1129 GCCTTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGA 1188
Qy 1752 TCCACTGACAGATTCACTCCCCACATCCCTAGACAGGATGGAATGTAATATCCAGA 1811
Db 1189 TCCACTGACAGATTCACTCCCCACATCCCTAGACAGGATGGAATGTAATATCCAGA 1248
Qy 1812 GAATTTGGGTCTAGTATAGTACATTTTCCCTTCCATTAAATGCTTTGGGATATCTGGA 1871
Db 1249 GAATTTGGGTCTAGTATAGTACATTTTCCCTTCCATTAAATGCTTTGGGATATCTGGA 1308
Qy 1872 TCAGTAATAAAATATTTCAAAGGCACAGA 1900
Db 1309 TCAGTAATAAAATATTTCAAAGGCACAAA 1337

RESULT 34
ADP90810/c
ID ADF90810 standard; DNA; 742 BP.

XX AC ADF90810;

DT 26-FEB-2004 (first entry)

XX DE Human hepatic-fibrosis disease marker SEQ ID 272.

XX KW Hepatic fibrosis; marker; chronic hepatitis; liver cirrhosis;
KW KW hepatic carcinoma; human; ds.

XX OS Homo sapiens.

XX PN JP2003259877-A.

XX PD 16-SEP-2003.

XX PF 11-MAR-2002; 2002JP-00065013.

XX PR 11-MAR-2002; 2002JP-00065013.

XX PA (SUMU) SUMITOMO SEIYAKU KK.

XX DR WPI; 2003-821598/77.

XX PT Hepatic fibrosis disease markers comprising polynucleotides or
PT PT antibodies, useful for improved diagnosis, screening and developing drugs
PT PT to treat hepatitis, to control cirrhosis and carcinoma.

XX PS Claim 1; SEQ ID NO 272; 313pp; Japanese.

XX XX

CC The present invention relates to hepatic-fibrosis disease markers
CC (ADF90539-ADF90871) and related proteins (ADF90872-ADF90917). The
CC sequences are useful for detecting and treating hepatic fibrosis caused
CC by alcohol consumption, virus infection, etc., and the associated chronic
CC hepatitis, etc. leading to liver cirrhosis and hepatic carcinoma. The
CC markers allow the cause of hepatic fibrosis to be clarified (diagnostic
CC precision), so more suitable treatments can be developed and given.

XX SQ Sequence 742 BP; 192 A; 165 C; 160 G; 224 T; 0 U; 1 Other;

Query Match 32.4%; Score 726.6; DB 10; Length 742;

Best Local Similarity 98.7%; Pred. No. 2.4e-149;

Matches 732; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1155 GAATACCGGAATAGCAGCCGGGTGAGAAAATTTCTGTCGATACTAAGGAGGAGATTCTA 1214

Db 742 GAATACCGGAATTACCAGCCGGGTGAGAAAATTTCTGTCGATACTAGGAGGANATTCTA 683

Qy 1215 ATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGATCGAGGCGCGTTTGATGAG 1274

Db 682 ATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGATCGAGGCGCGTTTGATGAG 623

Qy 1275 CCTGGAACATAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCATGTC 1334

Db 622 CCTGGAACATAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCATGTC 563

Qy 1335 CCTCACATGAATGTCTCGGTGGAACACAGGTGACACGACATCTTGAAGATGTGTTT 1394

Db 562 CCTCACATGAATGTCTCGGTGGAACACAGGTGACACGACATCTTGAAGATGTGTTT 503

Qy 1395 TCCAAAAGAAATAGTTCCAAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTTG 1454

Db 502 TCCAAAAGAAATAGTTCCAAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTTG 443

Qy 1455 ATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCCGATCAGAACAGTGT 1514

Db 442 ATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCCGATCAGAACAGTGT 383

Qy 1515 GGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAG 1574

Db 382 GGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAATTCGCAAAATGTTCCAG 323

Qy 1575 GAGATCGTCCACAAGAGCGTGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACAT 1634

Db 322 GAGATCGTCCACAAGAGCGTGTGCTAAATTCGCTGGGAGCTGTTGATGATGGAGAACAT 263

Qy 1635 TCGCAGAATGAGAAAATCAACAGGTGGAACACTACATAGAGGGAACCAAAATATTGCTGCC 1694

Db 262 TCGCAGAATGAGAAAATCAACAGGTGGAACACTACATAGAGGGAACCAAAATATTGCTGCC 203

Qy 1695 TTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCC 1754

Db 202 TTTTCTTAGAGATGGCCAGCTCCATTAATCACAAGAACCTTCTAGTCTGATCTGATCC 143

Qy 1755 ACTGACAGATTCACTCCCCACATCCCTAGACAGGGATGGAATGTAATATCCAGAGAA 1814

Db 142 ACTGACAGATTCACTCCCCACATCCCTAGACAGGGATGGAATGTAATATCCAGAGAA 83

Qy 1815 TTTGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGTCTTGGGATATCTGGATCA 1874

Db 82 TTTGGTCTAGTATAGTACATTTTCCCTTCCATTTAAATGTCTTGGGATATCTGGATCA 23

Qy 1875 GTAATAAAAATATTTCAAAGGCA 1896

Db 22 GTAATAAAAATATTTCAAAGGCA 1

RESULT 35

AAH98942

ID AAH98942 standard; cDNA; 639 BP.

XX XX

AC AAH98942;

XX XX

DT	12-OCT-2001	(first entry)	
XX	Human EST-derived coding sequence	SEQ ID NO: 799.	
DE	Human;	sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;	
XX	Human;	sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;	
KW	tomato; monkey; dog; sea urchin;	expressed sequence tag; EST;	
KW	diagnostics; forensic test;	gene mapping; genetic disorder; biodiversity;	
KW	gene therapy; nutrition; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200154477-A2.		
XX			
PD	02-AUG-2001.		
XX			
PF	25-JAN-2001;	2001WO-US002687.	
XX			
PR	25-JAN-2000;	2000US-00491404.	
PR	17-JUL-2000;	2000US-00617746.	
PR	03-AUG-2000;	2000US-00631451.	
PR	15-SEP-2000;	2000US-00663870.	
XX			
PA	(HYSE-) HYSEQ INC.		
XX			
PI	Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;		
PI	Cao Y, Drmanac RA, Zhang J, Werhman T;		
XX			
DR	WPI; 2001-476164/51.		
DR	P-PSDB; AAM24283.		
XX			
PT	Isolated polypeptide for treatment of diseases, diagnostics, raising		
PT	antibodies and research use.		
XX			
PS	Claim 1; Page 676; 1275pp; English.		
XX			
CC	The present invention provides the protein and coding sequences of novel		
CC	proteins from a variety of organisms, including human, dog, cat, horse,		
CC	cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea		
CC	urchin and tomato. These were derived from expressed sequence tags (ESTs)		
CC	from the organism of interest. They can be used in diagnostics,		
CC	forensics, gene mapping, identification of mutations, to assess		
CC	biodiversity and for nutritional purposes. The present sequence is a cDNA		
CC	of the invention		
XX			
SQ	Sequence 639 BP; 119 A; 181 C; 186 G; 153 T; 0 U; 0 Other;		
Query Match 24.9%; Score 557.2; DB 4; Length 639;			
Best Local Similarity 99.0%; Pred. No. 3.3e-112;			
Matches 572; Conservative 0; Mismatches 3; Indels 3; Gaps 1;			
QY	1	GAATGAATACCTCGAAGCCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACCAGCC	60
Db	61	GAATGAATACCTCGAAGCCGCTTTGTTCTCCAAATGGGAATAGTCCACTATACCAGCC	120
QY	61	TCGTCTTCCTCCGGGGGACAAACGTGGGTACGGGCACAGAGAGATATTTAATGTCAACCCT	120
Db	121	TCGTCTTCCTCCGGGGGACAAACGTGGGTACGGGCACAGAGAGATATTTAATGTCAACCCT	180
QY	121	CTTGGGGCTTTCAATGGGACTCCCTCTGCCACATTTTGGAGGTTGGAAAGTTGCTAGA	180
Db	181	CTTGGGGCTTTCAATGGGACTCCCTCTGCCACATTTTGGAGGTTGGAAAGTTGCTAGA	240
QY	181	GGCTTCAGAACTCCAGCCCTAATGGATCCCAAACTCGGAGAAATGGCTCCCTGCTGG	240
Db	241	GGCTTCAGAACTCCAGCCCTAATGGATCCCAAACTCGGAGAAATGGCTCCCTGCTGG	300
QY	241	CTG---TGCTGCTGCTGGAGCGGGCATGTTCTCCTCACCCCTCCCGCCCCCGG	297
Db	301	CTGCTGCTGCTGCTGCTGGAGCGGGCATGTTCTCCTCACCCCTCCCGCCCCCGG	360
QY	298	CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGC	357
Db	361	CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGC	420
QY	358	TGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCCCTGTCCCTTCAGACAAG	417
Db	421	TGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCCCTGTCCCTTCAGACAAG	480
QY	418	AGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCCTGGGGCCCGTGTGG	477
Db	481	AGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCCTGGGGCCCGTGTGG	540
QY	478	CCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCTCCCG	537
Db	541	CCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCTCCCG	600
QY	538	TCATCCTGGCCGAACTGGGGAGCGATCCACGAAAGGC	575
Db	601	TCATCCTGGCCGAACTGGGGAGCGATCCACGAAAGGC	638
RESULT 36			
AAH99853			
ID	AAH99853 standard; cDNA; 639 BP.		
XX			
AC	AAH99853;		
XX			
DT	16-OCT-2001 (first entry)		
XX			
DE	Human protein encoding cDNA sequence SEQ ID NO:688.		
XX			
KW	Human; cancer; ulcer; HIV infection; human immunodeficiency virus;		
KW	antiinflammatory; antirheumatic; antiarthritic; immunosuppressive;		
KW	antibacterial; endocrine; cardiant; central nervous system; virucide;		
KW	anti-HIV; fungicide; antimutagen; cardiovascular; antianaemic; anaemia;		
KW	antiaggregant; haemostatic; vulnery; antiulcer; osteopathic; eczema;		
KW	dermatological; antiallergic; antiasthmatic; antidiabetic; cytostatic;		
KW	neuroprotective; antidepressant; nootropic; antiparkinsonian; infection;		
KW	immunostimulant; gene therapy; antisense therapy; vaccine; inflammation;		
KW	antianaphylactic; rheumatoid arthritis; septic shock; pancreatitis;		
KW	cardiac dysfunction; neuropathology; cardiac anaphylaxis; autoimmunity;		
KW	genetic disease; haematopoietic disorder; platelet disorder; asthma;		
KW	thrombocytopaenia; osteoporosis; severe combined immunodeficiency;		
KW	allergic rhinitis; diabetes; multiple sclerosis; depression;		
KW	Alzheimer's disease; Parkinson's disease; neurodegenerative disorder;		
KW	neurological disorder; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200153455-A2.		
XX			
PD	26-JUL-2001.		
XX			
PF	22-DEC-2000; 2000WO-US035017.		
XX			
PR	23-DEC-1999; 99US-00471275.		
PR	21-JAN-2000; 2000US-00488725.		
PR	25-APR-2000; 2000US-00552317.		
XX			
PA	(HYSE-) HYSEQ INC.		
XX			
PI	Tang YT, Liu C, Drmanac RT;		
XX			
DR	WPI; 2001-457603/49.		
DR	P-PSDB; AAM25912.		
XX			
PT	Isolated human polynucleotides encoding polypeptides, useful for the		
PT	treatment and diagnosis of e.g. cancer, ulcers and HIV infection.		
XX			
PS	Claim 1; Page 683; 1217pp; English.		
XX			
CC	AAH99166 to AAH99904 encode the human proteins given in AAM25225 to		
CC	AAM25963. The proteins can have activities based on the tissues and cells		
CC	they are expressed in, such as: antiinflammatory; antirheumatic;		
CC	antiarthritic; immunosuppressive; antibacterial; endocrine; cardiant;		
CC	central nervous system; virucide; anti-HIV; fungicide; antimutagen;		

CC cardiovascular; antianaemic; antiaggregant; haemostatic; vulnery;
CC antiulcer; osteopathic; dermatological; antiallergic; antiasthmatic;
CC antidiabetic; cytostatic; neuroprotective; antidepressant; nootropic;
CC antiparkinsonian; and immunostimulant. The proteins and polynucleotides
CC encoding them can be used in gene therapy, antisense therapy and vaccine
CC production. The proteins and polynucleotides are useful for screening for
CC agonists or antagonists of a protein and for the treatment and diagnosis
CC of disorders associated with the activity of a protein e.g. inflammation,
CC rheumatoid arthritis, septic shock, pancreatitis, cardiac dysfunction,
CC neuropathology, cardiac anaphylaxis, viral, bacterial, HIV and fungal
CC infections, autoimmunity, genetic diseases, haematopoietic disorders,
CC anaemia, platelet disorders, thrombocytopaenia, wounds, burns, ulcers,
CC osteoporosis, severe combined immunodeficiency, eczema, allergic
CC rhinitis, asthma, diabetes, cancer, multiple sclerosis, depression,
CC Alzheimer's disease, Parkinson's disease, neurodegenerative and
CC neurological disorders

XX Sequence 639 BP; 119 A; 181 C; 186 G; 153 T; 0 U; 0 Other;

Query Match 24.9%; Score 557.2; DB 4; Length 639;
Best Local Similarity 99.0%; Pred. No. 3.3e-112;
Matches 572; Conservative 0; Mismatches 3; Indels 3; Gaps 1;

QY 1 GAATGAATACCTCCGAAGCCGCTTTGTTCTCCAGATGTGAATAGTCCACTATACCAGCC 60
Db |||||||
QY 61 GAATGAATACCTCCGAAGCCGCTTTGTTCTCCAAATGGGAATAGTCCACTATACCAGCC 120
Db |||||||
QY 61 TCGTCTTCTCCGGGGGACAAACGTGGGTGAGGGACAGAGAGATTAATGTCAACCCT 120
Db |||||||
QY 121 TCGTCTTCTCCGGGGGACAAACGTGGGTGAGGGACAGAGAGATTAATGTCAACCCT 180
QY 121 CTTGGGGCTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTGGGAAAGTTGCTAGA 180
Db |||||||
QY 181 CTTGGGGCTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTGGGAAAGTTGCTAGA 240
QY 181 GGCTTCAGAACTCCAGCCTAATGGATCCCAAACTCGGGAGAAATGGCTCCCTGCTGG 240
Db |||||||
QY 241 GGCTTCAGAACTCCAGCCTAATGGATCCCAAACTCGGGAGAAATGGCTCCCTGCTGG 300
QY 241 CTG--TGCTGCTGCTGCTGCTGGAGCGGGCATGTTCTCCTCACCTCCCCCGCCCCGG 297
Db |||||||
QY 301 CTGTGCTGCTGCTGCTGCTGGAGCGGGCATGTTCTCCTCACCTCCCCCGCCCCGG 360
QY 298 CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGATGAATTTGTGCAGACGC 357
Db |||||||
QY 361 CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGATGAATTTGTGCAGACGC 420
QY 358 TGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCCTGTCCTCGCTTCAGACAAG 417
Db |||||||
QY 421 TGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCCAGCCTGTCCTCGCTTCAGACAAG 480
QY 418 AGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCTGGGGCCCCGTGTGG 477
Db |||||||
QY 481 AGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCTGGGGCCCCGTGTGG 540
QY 478 CCTCGGTGACATGGGTCTTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCG 537
Db |||||||
QY 541 CCTCGGTGACATGGGTCTTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATACCTCCCG 600
QY 538 TCATCTGCGCGAACTGGGGAGCGGATCCCGAAGGC 575
Db |||||||
QY 601 TCATCTGCGCGAACTGGGGAGCGGATCCCGAAGGC 638

RESULT 37
ADQ67289

ID ADQ67289 standard; cDNA; 3755 BP.

XX AC ADQ67289;

XX DT 07-OCT-2004 (first entry)

XX DE Novel human cDNA sequence #2262.

XX ss; gene; osteopathic; neuroprotective; nootropic; antiparkinsonian;
KW cytostatic; gene therapy; diagnostic marker; morbid state; osteoporosis;
KW neurological disease; Alzheimer's disease; Parkinson's disease; dementia;
KW cancer.

OS Homo sapiens.

XX EP1440981-A2.

XX 28-JUL-2004.

PF 21-JAN-2004; 2004EP-00001196.

XX 21-JAN-2003; 2003JP-00102206.

PR 09-MAY-2003; 2003JP-00131392.

XX (REAS-) RES ASSOC BIOTECHNOLOGY.

PI Isogai T, Sugiyama T, Otsuki T, Wakamatsu A, Sato H, Ishii S;
PI Yamamoto J, Isono Y, Nagai K, Irie R;

DR WPI; 2004-535376/52.
DR P-PSDB; ADQ67596.

PT Novel 2495 cDNA, useful for treating osteoporosis, neurological diseases,
PT Alzheimer's diseases, Parkinson's diseases, dementia and various cancers.

XX Claim 1; SEQ ID NO 4450; 2449pp; English.

CC The invention relates to 2495 novel polynucleotides (I) and their encoded
CC polypeptides, sequences hybridizing to these nucleotides, sequences
CC encoding partial polypeptides and sequences having 70% or 90% identity to
CC the nucleotide and protein sequences. The nucleotides and polypeptides
CC are useful as diagnostic markers or therapeutic target for the diseases
CC or morbid states. They are also useful for treating osteoporosis,
CC neurological diseases, Alzheimer's diseases, Parkinson's diseases,
CC dementia and various cancers. This sequence corresponds to a nucleotide
CC sequence of the invention.

XX Sequence 3755 BP; 1026 A; 838 C; 804 G; 1087 T; 0 U; 0 Other;

Query Match 23.1%; Score 518; DB 12; Length 3755;
Best Local Similarity 100.0%; Pred. No. 2.3e-103;
Matches 518; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1656 AGGTGGAACACTACATAGAGGGAAACCAATTTTCTGCTGCCTTTTCTTAGAGATGCCCCAG 1715
Db |||||||
QY 3238 AGGTGGAACACTACATAGAGGGAAACCAATTTTCTGCTGCCTTTTCTTAGAGATGCCCCAG 3297
QY 1716 CTCCATTAAATCACAAGAACCTTCTAGTCTGATCCACTGACAGATTCACCTCCCCC 1775
Db |||||||
QY 3298 CTCCATTAAATCACAAGAACCTTCTAGTCTGATCCACTGACAGATTCACCTCCCCC 3357
QY 1776 ACATCCCTAGACAGGATGGAATGTAATATCCAGAGAATTTGGGTCTAGTATAGTACAT 1835
Db |||||||
QY 3358 ACATCCCTAGACAGGATGGAATGTAATATCCAGAGAATTTGGGTCTAGTATAGTACAT 3417
QY 1836 TTTCCCTTCCATTAAAAATGTCTTGGGATATCTGGATCAGTAATAAAATATTTCAAAGGC 1895
Db |||||||
QY 3418 TTTCCCTTCCATTAAAAATGTCTTGGGATATCTGGATCAGTAATAAAATATTTCAAAGGC 3477
QY 1896 ACAGATGTTGGAATGTTTAAAGTCCCCCACTGCACACCTTCTTCAAGTCATAGCTGCT 1955
Db |||||||
QY 3478 ACAGATGTTGGAATGTTTAAAGTCCCCCACTGCACACCTTCTTCAAGTCATAGCTGCT 3537
QY 1956 TGCAGCAACTTGATTTCCCCAAGTCTCTGTGCAATAGCCCCCAGGATTTGGATTCCTTCCAAC 2015
Db |||||||
QY 3538 TGCAGCAACTTGATTTCCCCAAGTCTCTGTGCAATAGCCCCCAGGATTTGGATTCCTTCCAAC 3597
QY 2016 CTTTTAGCATATCTCCAAACCTTGCAATTTGATTTGGCATAATCACTCCGTTTGTCTTCTA 2075
Db |||||||
QY 3598 CTTTTAGCATATCTCCAAACCTTGCAATTTGATTTGGCATAATCACTCCGTTTGTCTTCTA 3657

QY 2076 GGTCTCAAGTGCTCGTGACACATAATCATTCCTCCAAATGATCGCCTTGCTTTACCAC 2135
|
Db 3658 GGTCTCAAGTGCTCGTGACACATAATCATTCCTCCAAATGATCGCCTTGCTTTACCAC 3717
|
QY 2136 TCTTTCCTTTTATCTATTATAATAAAATGTTGGTCTCC 2173
|
Db 3718 TCTTTCCTTTTATCTATTATAATAAAATGTTGGTCTCC 3755
|

RESULT 38
AAS65841
ID AAS65841 standard; cDNA; 643 BP.
XX
AC AAS65841;
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #1645.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX

OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US008631.
XX
PR 31-MAR-2000; 2000US-00540217.
PR 23-AUG-2000; 2000US-00649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
DR P-PSDB; ABG01654.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX

PS Claim 1; SEQ ID NO 1645; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC activity of (II) or to treat disease states involving (II). (II) is
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activity. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
CC coding sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX

SQ Sequence 643 BP; 123 A; 181 C; 186 G; 153 T; 0 U; 0 Other;
Query Match 23.0%; Score 514.6; DB 5; Length 643;

Best Local Similarity 97.3%; Pred. No. 7.4e-103;
Matches 567; Conservative 0; Mismatches 9; Indels 7; Gaps 4;
QY 1 GAATGAATACCTCCGAAGCCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCC 60
|
Db 61 GAATGAATACCTCCGAAGCCGTTTGTCTCCAAATGGGAATAGCTCCACTATACCAGCC 120
|
QY 61 TCGTCTTCCTCCGGGGGACAAACGTTGGTTCAGGGCACAGAGAGATATTTAATGTACCCCT 120
|
Db 121 TCGGTTTCCTCCGGGGGACAAACGTTGGTTCAGGGCACAGAGAGATATTTAATGTACCCCT 180
|
QY 121 CTTGGGGCTTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGA 180
|
Db 181 CTTGGGGCTTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGA 240
|
QY 181 GGCTTCAGAACTCCAGCCTAATGGATCCAAACTCGGAGAAATGGTGGTCCCTGCTGG 240
|
Db 241 GGCTTCAAACTCCAGCCTAATGGATCCAAACTCGGAGAAATGGTGGTCCCTGCTGG 300
|
QY 241 CTG---TGCTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCCCTCCCGCCCCCGG 297
|
Db 301 CTGTGCTGCTGCTGCTGCTGGAGCGGCGCATGTTCTCCTCACCCCTCCCGCCCCCGG 360
|
QY 298 CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGC 357
|
Db 361 CGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGC 420
|
QY 358 TGAAGGAGTGGGTGGCCATCGAG-AGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAA 416
|
Db 421 TGAAGGAGTGGGTGGCCATCGAGAGCGGACTCTGTCCAGCCTGTGCTCGCTTCAGACAA 480
|
QY 417 GAGCTCTTCAGAAATGATGGCCGTTGGTGC- GGACACGCTGCAGCGCT- GGGGGCCCCGT 473
|
Db 481 GAGCTCTTCAAAATGATGGCCGTTGGTGCAGCGGACACGCTGCACCCGCTGGGGGGCCCCGT 540
|
QY 474 GTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCT 533
|
Db 541 TTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCT 600
|
QY 534 CCGGTCATCTCTGGCCGAACTGGGGAGCGATCCACGAAAGGCA 576
|
Db 601 CCGGTCATCTCTGGCCGAACTGGGGAGCGATCCACGAAAGGCA 643
|

RESULT 39
AAC78161
ID AAC78161 standard; cDNA; 1997 BP.
XX
AC AAC78161;
XX
DT 08-FEB-2001 (first entry)
XX
DE Human cancer associated gene sequence SEQ ID NO:555.
XX
KW Human; cancer associated gene; cancer antigen; detection; cancer;
KW diagnosis; cytostatic; proliferative; vulnery; immunomodulator;
KW antidiabetic; antiasthmatic; antirheumatic; antiarthritic; antiviral;
KW antiinflammatory; antithyroid; antiallergic; antibacterial; cardiac;
KW dermatological; neuroprotective; thrombolytic; coagulant; nootropic;
KW vasotropic; antipsoriatic; antiangiogenic; gene therapy; inflammation;
KW immune disorder; haematopoietic cell disorder; autoimmune disorder;
KW allergic reaction; graft versus host disease; organ rejection;
KW haemostatic; thrombolytic; cardiovascular disorder; infection;
KW neurological disease; drug screening; ss.

XX Homo sapiens.
OS
XX
PN WO200055350-A1.
XX
PD 21-SEP-2000.
XX
PF 08-MAR-2000; 2000WO-US005882.
XX

QY 1273 AGCCTGGAACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTCAATCCGCTCTAG 1332
Db 1091 GGTCTGGGCGCAAGACCGTGATCCAGGAAGTGGTTGGCAAGTCTCCATCAGGCTCG.1150
QY 1333 TCCCTCAGATGAATGTGCTCGGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGT 1392
Db 1151 TGCCGAACATGACTCCTGAAGTCGTGGCGAGCAGGTCAACAAGTACCTAATAAGAGT 1210
QY 1393 TCTCCAAAAGAAATAGTTCCAAACAGATGGTTGTTTCCATGACTCTAGGACTACACCCGT 1452
Db 1211 TTGCTGAACTAGCAGCCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT 1270
QY 1453 GGATTGCAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGT 1512
Db 1271 GGGTCTCCGACTTCAGTCACCCCTCATACCTGGCTGGGAGAGAGCCATGAAGACAGTTT 1330
QY 1513 TTGGAACAGAACAGATATGATCCGGGATGGATCCACCATTCCTCAATGCCAAAATGTTCC 1572
Db 1331 TTGGTGTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCGGTGACCTTGACCTTTC 1390
QY 1573 AGGAGATCGTCCACAAGAGCGTGGTGCTAAATTCGGAGCTGTTGATGATGGAGAAC 1632
Db 1391 AGGAGGCCACGGGCAAGAACGTATCTGCTGCTGTGGGTGAGCGGATGACGGAGCCC 1450
QY 1633 ATTCGCAGAAATGAGAAAATCAACAGGTGGAACATACATAGAGGGAACCAATATTGCTG 1692
Db 1451 ACTCCCAAGATGAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCTGGCCG 1510
QY 1693 CCTTTTCTTAGAGATGGCCCGAGCTCCATTAATCAACAAGAACCTTCT 1739
Db 1511 CGTACCTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1557

RESULT 41
AAH75171
XX AC AAH75171;
XX DT 13-NOV-2001 (first entry)
XX DE Nucleotide sequence of a human enzyme.
KW Human; enzyme; cancer; neurological disorder; epilepsy; stroke;
KW Alzheimer's disease; Pick's disease; Huntington's disease; dementia;
KW multiple sclerosis; Parkinson's disease; amyotrophic lateral sclerosis;
KW meningitis; schizophrenic disorder; neuroskeletal disorder; allergy;
KW addison's disease; autoimmune disease; anemia; asthma; Crohn's disease;
KW adult respiratory distress syndrome; atopic dermatitis; psoriasis;
KW diabetes mellitus; osteoporosis; pancreatitis; rheumatoid arthritis;
KW infection; genetic disorder; muscular dystrophy; Gaucher's disease;
KW Huntington's chorea; sickle cell anemia; thalassemia; atherosclerosis;
KW Von Willebrand's disease; Wilms' tumour; cell proliferative disorder;
KW leukemia; hepatitis; cirrhosis; arteriosclerosis; gene therapy; ss.
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 170..1597
FT /*tag= a
FT /product= "enzyme"
XX
PN WO200164896-A2.
XX
PD 07-SEP-2001.
XX
PF 01-MAR-2001; 2001WO-US006806.
XX
PR 01-MAR-2000; 2000US-0186307P.
PR 28-MAR-2000; 2000US-0192532P.
PR 30-MAR-2000; 2000US-0193578P.
XX
PA (INCY-) INCYTE GENOMICS INC.

XX Tang YT, Lu DAM, Bandman O, Yue H, Azimzai Y, Lal P, Burford N;
PI Baughn MR;
XX WPI; 2001-550184/61.
DR P-PSDB; AAG67143.
XX Novel human enzyme molecule useful for treating and preventing, e.g.,
PT cancer, genetic disorders, neurological disorders, autoimmune and
PT inflammatory disorders.
XX Claim 5; Page 149-150; 154pp; English.
PS
XX The present sequence encodes a human enzyme. The enzyme polynucleotide
CC and polypeptide are useful for diagnosis, treatment and prevention of
CC cancers, neurological disorders (e.g. epilepsy, stroke, Alzheimer's
CC disease, Pick's disease, Huntington's disease, dementia, multiple
CC sclerosis, Parkinson's disease, amyotrophic lateral sclerosis, bacterial
CC and viral meningitis, schizophrenic disorders and neuroskeletal
CC disorders), autoimmune/inflammatory disorders (e.g. allergies, addison's
CC disease, autoimmune diseases, adult respiratory distress syndrome,
CC anemia, asthma, Crohn's disease, atopic dermatitis, diabetes mellitus,
CC osteoporosis, pancreatitis, psoriasis, rheumatoid arthritis, and viral,
CC bacterial, fungal, parasitic, protozoal and helminthic infections),
CC genetic disorder (e.g. Duchenne and Becker muscular dystrophy, Gaucher's
CC disease, Huntington's chorea, sickle cell anemia, thalassemia, Von
CC Willebrand's disease and Wilms' tumour), and cell proliferative disorder
CC (e.g. atherosclerosis, leukemia, hepatitis, cirrhosis, and
CC arteriosclerosis). The polynucleotide is also useful in somatic or
CC germline gene therapy
XX
SQ Sequence 2221 BP; 529 A; 567 C; 656 G; 469 T; 0 U; 0 Other;

Query Match 20.9%; Score 469; DB 5; Length 2221;
Best Local Similarity 58.6%; Pred. No. 1.1e-92;
Matches 836; Conservative 0; Mismatches 585; Indels 6; Gaps 1;
QY 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGG 372
Db 189 TGTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAACTCGCAAATGGGTGG 248
QY 373 CCATCGAGAGCGACTCTGTCCAGCCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAAATGA 432
Db 249 CTATCCAGAGTGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA 302
QY 433 TGGCCGTGGTGGGACACGCTGCAGCGCCTGGGGGCCGTGTGGCCTCGGTGGACATGG 492
Db 303 TGGAAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGATATCG 362
QY 493 GTCCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAAATACCTCCCCTCATCTGGCCGAAC 552
Db 363 GAAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTATTCTGCTCGGCAGGC 422
QY 553 TGGGGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTG 612
Db 423 TGGGCTCCGACCCACAGAAAGAACCGGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG 482
QY 613 CTGACCGGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAC 672
Db 483 CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCTGGTGGAGCGGACGGCAAGC 542
QY 673 TTTATGGACGAGGACCGACCAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGA 732
Db 543 TGCATGGGAGAGGTTTCGACTGATGATAAGGGCCCGGTGGCGCTGGATAAACGCCCTGG 602
QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAATTCATCATTTGAGGGA 792
Db 603 AAGCGTATCAGAAAAACAGGCCAGGAGATTCTCTGTCAACGTCCGATTCTGCCTCGAAGGCA 662
QY 793 TGGAAAGAGGCTGGCTCTGTTGCCCTGGAGGAACCTTGTGGAAAAAGAAAGGACCGATTCT 852
Db 663 TGGAGGAGTCAGGCTCTGAGGGCCTAGAGCGAGCTGATTTTGTGCCCCGGAAGACACATTCT 722


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QY      853  TCTCTGGTGTGGACTACATTGTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAG 912
      |||
Db      723  TTAAGGATGTGGACTACGCTCTGCATTTCTGACAATTAAGTGGTGGAAAGAAGGCCCT 782
      |||
QY      913  CAATCAGTTATGGAACCCGGGGGAACAGCTACTTTCATGGTGGAGGTGAATGCAGAGACC 972
      |||
Db      783  GCATCACCTACGGCCTCAGGGGCATTGTGCTACTTTTCATCGAGGTGGAGTGCAGCAACA 842
      |||
QY      973  AGGATTTTCACCTCAGGAACCTTTGGTGGCATCCTTTCATGAACCAATGGCTGATCTGTTG 1032
      |||
Db      843  AAGACCTCCATTCTGGGGTGTACGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTT 902
      |||
QY      1033  CTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCAATATCCTGGTCCCTGGAATCTATGATG 1092
      |||
Db      903  TGCTGATGGGCTCTTTGGTGGACAAGAGGGGGGAACATCCTGATCCCCGGGCATTAACGAGG 962
      |||
QY      1093  AAGTGGTTCCTTTACAGAAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAG 1152
      |||
Db      963  CCGTGGCCGCCGTACCGAAGAGGAGGACCAAGCTGTACGACGACATCGACTTTGACATAG 1022
      |||
QY      1153  AAGAATACCGGAATAGCAGCCGGTTGAGAAATTTCTGTTCGATACCTAAGGAGGAGATTCT 1212
      |||
Db      1023  AGGAGTTTGCCAAGGATGTGGGGCGCAGATCCTCTGCACAGCCACAAAGAGACATCC 1082
      |||
QY      1213  TAATGCACCTCTGGAGGTACCCCATCTCTTTCTATTTCATGGGATCGAGGGCGCTTTGATG 1272
      |||
Db      1083  TCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCATCGAAGCGCCTTCTCTG 1142
      |||
QY      1273  AGCCTGGAACTAAACAGTCCATACCTGGCCGAGTTATAGGAAATTTTCAATCCGTCTAG 1332
      |||
Db      1143  GGTCTGGGGCCCAAGACCGTGATTTCCAGGAAGGTGGTTGGCAAGTTCTCCATCAGGCTCG 1202
      |||
QY      1333  TCCCTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGT 1392
      |||
Db      1203  TGCCGAACATGACTCTCTGAAGTCGTGCGCGAGCAGGTCAACAAGCTACCTAACTAAGAAGT 1262
      |||
QY      1393  TCTCCAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGACTACACCCGT 1452
      |||
Db      1263  TTGCTGAACCTACGACGCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT 1322
      |||
QY      1453  GGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAAACAGTGT 1512
      |||
Db      1323  GGGTCTCCGACTTCAGTCACCCCTCATTTACCTGGCTGGGAGAAGAGCCATGAAGACAGTTT 1382
      |||
QY      1513  TTGGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTTCCAATTGCCAAAATGTTCC 1572
      |||
Db      1383  TTGGTGTGTAGCCAGACTTGACCAGGAAGGCGGCAGTATTCCCGTGACTTGACCTTTC 1442
      |||
QY      1573  AGGAGATCGTCCCAAGAGCGTGGTGCTAATTCCCGCTGGGAGCTGTTGATGATGGAGAAC 1632
      |||
Db      1443  AGGAGGCCACGGGCAAGAACGTCATGCTGTGCTGTGGGGTCAGCGGATGACGGAGCCC 1502
      |||
QY      1633  ATTCGCAGAATGAGAAAATCAACAGGTGGAACTACATAGAGGGAAACCAATATTGCTG 1692
      |||
Db      1503  ACTCCAGAAATGAAAAGCTCAACAGGTATACTACATAGAGGGAAACCAAGATGCTGGCCG 1562
      |||
QY      1693  CCTTTTCTTAGAGATGGCCCGCAGCTCCATTAAATCAACAAGAACCTTCT 1739
      |||
Db      1563  CGTACCTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1609
      |||
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RESULT 42

```
AAH14599
ID   AAH14599 standard; cDNA; 2643 BP.
XX
AC   AAH14599;
XX
DT   26-JUN-2001 (first entry)
XX
DE   Human cDNA sequence SEQ ID NO:12213.
XX
KW   Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX
```

```
OS      Homo sapiens.
XX
PN      EPI074617-A2.
XX
PD      07-FEB-2001.
XX
PF      28-JUL-2000; 2000EP-00116126.
XX
PR      29-JUL-1999; 99JP-00248036.
PR      27-AUG-1999; 99JP-00300253.
PR      11-JAN-2000; 2000JP-00118776.
PR      02-MAY-2000; 2000JP-00183767.
PR      09-JUN-2000; 2000JP-00241899.
XX
PA      (HELI-) HELIX RES INST.
XX
PI      Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI      Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
DR      WPI; 2001-318749/34.
XX
PT      Primer sets for synthesizing polynucleotides, particularly the 5602 full-
PT      length cDNAs defined in the specification, and for the detection and/or
PT      diagnosis of the abnormality of the proteins encoded by the full-length
PT      cDNAs.
XX
PS      Claim 8; SEQ ID NO 12213; 2537pp + Sequence Listing; English.
XX
CC      The present invention describes primer sets for synthesising 5602 full-
CC      length cDNAs defined in the specification. Where a primer set comprises:
CC      (a) an oligo-dT primer and an oligonucleotide complementary to the
CC      complementary strand of a polynucleotide which comprises one of the 5602
CC      nucleotide sequences defined in the specification, where the
CC      oligonucleotide comprises at least 15 nucleotides; or (b) a combination
CC      of an oligonucleotide comprising a sequence complementary to the
CC      complementary strand of a polynucleotide which comprises a 5'-end
CC      sequence and an oligonucleotide comprising a sequence complementary to a
CC      polynucleotide which comprises a 3'-end sequence, where the
CC      oligonucleotide comprises at least 15 nucleotides and the combination of
CC      the 5'-end sequence/3'-end sequence is selected from those defined in the
CC      specification. The primer sets can be used in antisense therapy and in
CC      gene therapy. The primers are useful for synthesising polynucleotides,
CC      particularly full-length cDNAs. The primers are also useful for the
CC      detection and/or diagnosis of the abnormality of the proteins encoded by
CC      the full-length cDNAs. The primers allow obtaining of the full-length
CC      cDNAs easily without any specialised methods. AAH03166 to AAH13628 and
CC      AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893
CC      represent human amino acid sequences; and AAH13629 to AAH13632 represent
CC      oligonucleotides, all of which are used in the exemplification of the
CC      present invention
XX
SQ      Sequence 2643 BP; 638 A; 660 C; 749 G; 596 T; 0 U; 0 Other;

      Query Match      20.9%; Score 469; DB 4; Length 2643;
      Best Local Similarity 58.6%; Pred. No. 1.2e-92;
      Matches 836; Conservative 0; Mismatches 585; Indels 6; Gaps 1;

QY      313  TCTTCCAGTACATTGACCTCCATCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGG 372
      |||
Db      182  TGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAACTCGCAAAATGGGTGG 241
      |||
QY      373  CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAAATGA 432
      |||
Db      242  CTATCCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGCGGAATCAGGAGGATGA 295
      |||
QY      433  TGGCCGTGGCTGCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATGG 492
      |||
Db      296  TGAAGTTGTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACCTGGTGGATATCG 355
      |||
QY      493  GTCCTCAGCAGCTGCCCGATGGTGCAGAGTCTTCCAATACCTCCCGTCATCTGGCCGAAC 552
      |||
Db      356  GAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGTCCCTCCTTCTTCTGCTCGGCAGGC 415
      |||
```


Db	182	TGTTTAAGTACATAGATGAAATATCAGGATCGCTACATTAAAGAAACTCGCAAAATGGGTGG	241
QY	373	CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGA	432
Db	242	CTATCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA	295
QY	433	TGGCCGTGGCTCGGACACCGCTGCAGCGCCTGGGGGCCCTGTGGCCTCGTGGGACATGG	492
Db	296	TGGAAGTGTCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTGGAACCTGGTGATATCG	355
QY	493	GTCCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAATACCTCCCGTCACTCCTGGCCGAAC	552
Db	356	GAAACAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCTATTCTGCTCGGCAGGC	415
QY	553	TGGGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTG	612
Db	416	TGGGCTCCGACCCACACAGAAGAACCGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG	475
QY	613	CTGACCGGGCGGATGGGTGGCTCACGGAACCCCTATGTGCTGACGGAGGTAGACGGGAAAC	672
Db	476	CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCCCTGGTGGAGCGGACGGCAAGC	535
QY	673	TTTATGGACGAGAGCGACCGACAAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGA	732
Db	536	TGTATGGGAGAGGTTGACTGTATGATAAGGGCCCCGGTGGCCGCTGGATAAAAGCCCTGG	595
QY	733	CGCGCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATTGAGGGGA	792
Db	596	AAGCGTATCAGAAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAGGCA	655
QY	793	TGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAATAAGAAAAAGGACCCGATTCT	852
Db	656	TGGAGGAGTCAAGCTCTGAGGGCCTAGACGAGCTGATTTTGGCCGGAAGACACATTCT	715
QY	853	TCTCTGGTGTGACTACATTGTTAAATTTCAGATAAACCTGTGGATCAGCCAAAGGAAGCCAG	912
Db	716	TTAAGGATGTGACTATGTCTGCATTTCTGACAATTACTGGCTGGGAAAGAAAGGCCCT	775
QY	913	CAATCAGCTTATGGAACCCGGGGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACC	972
Db	776	GCATCACCTACGGCCTCAGGGGCATTTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA	835
QY	973	AGGATTTTCACTCAGGAACCTTTGGTGGATCCTTCATGAACCAATGGCTGATCTGGTTG	1032
Db	836	AAGACCTCCATTCTGGGGGTGTACGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTT	895
QY	1033	CTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCCTGGTCCCTGGAATCTATGATG	1092
Db	896	TGCTGATGGGCTCTTTGGTGGACAAGAGGGGGAACATCCTGATCCCGGCATTAAACGAGG	955
QY	1093	AAGTGGTTCCTCTTACAGAAGAGGAAATAATACATACAAAGCCATCATCTAGACCTAG	1152
Db	956	CCGTGGCCGCCGCTACGGAAGAGGAGCACAAGCTGTACGACGACATCGACTTTGACATAG	1015
QY	1153	AAGAAATACCGGAATAGCAGCCGGGTTGAGAAATTTCTGTTTCGATACTAAAGGAGGATTC	1212
Db	1016	AGGAGTTTGCCAAGGATGTGGGGGGCGCAGATCCTCCTGCACAGCCACAAGAAAGACATCC	1075
QY	1213	TAATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGCGTTTGATG	1272
Db	1076	TCATGCACCGATGGCGGTACCCGCTCTCTGTCCCTCCATGGCATCGAAGGCGCCTTCTCTG	1135
QY	1273	AGCCTGGAACTAAACAGTCACTACCTGGCCGAGTTATAGGAAATTTTCAATCCGCTAG	1332
Db	1136	GGTCTGGGGCCCAAGACCCTGATTTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCG	1195
QY	1333	TCCCTCACATGAATGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGT	1392
Db	1196	TGCCGAACATGACTCCTGTAAGTCGTGGCGGAGCAGGTCACAAGCTACCTTAAGAAAGT	1255
QY	1393	TCTCCAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGT	1452
Db	1256	TTGCTGAACACTACGACAGCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT	1315
QY	1453	GGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGT	1512
Db	1316	GGGTCTCCGACTTCAGTCAACCTCATTTACCTGGCTGGGAGAGAGCCATGAAGACAGTTT	1375
QY	1513	TTGGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTTCCAATTGCCAAAATGTTCC	1572
Db	1376	TTGGTGTGAGCCAGACTTGACCAGGGAAGGGCGGCAGTATTCCCGTGACCTTGACCTTTC	1435
QY	1573	AGGATCGTCCCAAGAGCGTGGTGTCTAAATTCGCTGGGAGCTGTTGATGATGGAGAAC	1632
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Db	1496	ACTCCCAGAATGAAAAAGCTCAACAGGTATACTACATAGAGGGAACCAAGATGCTGGCCG	1555
QY	1693	CCTTTTCTTAGAGATGGCCCCAGCTCCCATTTAATCAAGAACCCTTCT	1739
Db	1556	CGTACCTGTATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT	1602
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ID	ACC72761	standard; cDNA; 2643 BP.	
XX	ACC72761;		
AC	ACC72761;		
XX	XX		
DT	09-JUL-2003	(first entry)	
XX	XX		
DE	Human cancer related protein encoding cDNA SEQ ID NO:100.		
XX	Human; cancer; diagnosis; screening; modulator; leukaemia; ischaemia;		
KW	heart disease; atherosclerosis; endometriosi	s; gene; ss.	
XX	Homo sapiens.		
OS	WO2003025138-A2.		
XX	XX		
PN	27-MAR-2003.		
XX	XX		
PF	17-SEP-2002; 2002WO-US029560.		
XX	XX		
PR	17-SEP-2001; 2001US-0323469P.		
PR	20-SEP-2001; 2001US-0323887P.		
PR	13-NOV-2001; 2001US-0350666P.		
PR	08-FEB-2002; 2002US-0355145P.		
PR	08-FEB-2002; 2002US-0355257P.		
PR	12-APR-2002; 2002US-0372246P.		
XX	(EOSB-) EOS BIOTECHNOLOGY INC.		
PA	Afar D, Aziz N, Gish KC, Hevezi PA, Mack DH, Wilson KE;		
XX	Zlotnik A;		
PI	WPI; 2003-354600/33.		
PI	P-PSDB; ABR58614.		
XX	New genes that are up-regulated or down-regulated in cancers, useful as		
DR	markers for diagnosing e.g. cancer, ischemia or heart diseases, or as		
DR	therapeutic targets for screening drugs for treating these diseases.		
XX	Claim 8; Page 676-677; 767pp; English.		
PS	The present invention describes an isolated nucleic acid molecule, which		
XX	comprises the sequence of any of the genes that are up-regulated or down-		
CC	regulated in specific cancers (e.g. about 1031 genes up-regulated in		
CC	acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer		
CC	related gene nucleotide sequences which encode the proteins given in		
CC	ABR58521 to ABR58709. Also described: (1) determining the presence or		
CC	absence of a pathological cell in a patient; (2) an expression vector		
CC	comprising a nucleic acid molecule described above; (3) a host cell		
CC	comprising the vector; (4) an isolated polypeptide, which is encoded by		

KW antiparkinsonian; antisickling; antianaemic; antiarthritic; cancer;
KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ss.
XX
OS Homo sapiens.
XX
PN WO200155387-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001310.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
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PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
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PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
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PR 11-JUL-2000; 2000US-0217487P.
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PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
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PR 02-OCT-2000; 2000US-0236802P.
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PR 13-OCT-2000; 2000US-0239935P.
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PR 20-OCT-2000; 2000US-0241786P.
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PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
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PR 08-DEC-2000; 2000US-0251856P.
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PR 08-DEC-2000; 2000US-0251869P.

DT 07-NOV-2001 (first entry)
XX
DE Novel cDNA encoding for human ADAM or serine protease.
DE
KW Human; ADAM; a disintegrin and metalloprotease domain; adamalysin;
KW serine protease; cancer; immune disease; blood-related disorder; HMWFM73;
KW hyperproliferative disorder; renal disorder; cardiovascular disorder;
KW respiratory disorder; inflammatory disorder; neurological disorder;
KW endocrine disorder; reproductive system disorder; infectious disease;
KW gastrointestinal disorder; gene therapy; cytostatic; anti inflammatory;
KW fertility; thrombolytic; anti coagulant; neutropic; neuroprotective; ss.
XX
OS Homo sapiens.
XX
XX
FH Key Location/Qualifiers
FT CDS 151..1581
FT /*tag= a
FT /transl except= (pos:529..531,aa:Xaa)
FT /note= "Xaa-unknown. This sequence lacks a start codon"
XX
PN WO200155309-A2.
XX
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001311.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
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PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
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PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
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PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
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AC	AAS97193		
DT	26-FEB-2002	(first entry)	
XX	Human metalloprotease partial DNA sequence #22.		
DE	Human	metalloprotease partial DNA sequence #22.	
XX	Human;	protease; PCR primer; cytostatic; immunomodulator; cardiant;	
KW	vasotropic;	antimigraine; analgesic; endocrine; nootropic; tranquiliser;	
KW	hypertensive;	hypotensive; neuroleptic; neuroprotective; anabolic;	
KW	anorectic;	antiinflammatory; aspartyl protease; cysteine protease;	
KW	metalloprotease;	serine protease; cancer; haematopoietic; breast; colon;	
KW	lung; prostrate;	cervical; brain; ovarian; bladder; kidney; pain;	
KW	immune-related disease;	cardiovascular disease; neuronal disease;	
KW	migraine;	sexual dysfunction; mood disorder; attention disorder;	
KW	cognition disorder;	hypotension; hypertension; psychotic disorder;	
KW	dyskinesia;	metabolic disorder; inflammatory disorder; ss.	
XX	Homo sapiens.		
OS	WO200183782-A2.		
XX	08-NOV-2001.		
PD	04-MAY-2001;	2001WO-US014431.	
XX	04-MAY-2000;	2000US-0201879P.	
PR	(SUGE-) SUGEN INC.		
XX	Plowman GD, Whyte D, Sudarsanam S, Manning G, Caenepeel S;		
PI	Payne V;		
PI	WPI; 2002-041502/05.		
XX	P-PSDB; AAU72910.		
DR	Novel protease polypeptide useful for screening for substances that may		
XX	be used to treat, e.g., cancers, immune-related diseases, cardiovascular		
PT	disease, migraine, pain, psychotic and inflammatory disorders.		
PT	Claim 30; Fig 1V-W; 232pp; English.		
XX	The invention relates to an isolated, enriched, or purified protease		
PS			
XX			
CC			

CC	polypeptide (I) and polynucleotide (II) encoding (I). (I) may be used to	
CC	screen for substances (S) that may modulate its activity. Administering S	
CC	(which modulates protease activity in vitro) may be used to treat a	
CC	disease or disorder selected from cancers (e.g., of tissues, of blood or	
CC	haematopoietic origin, of the breast, colon, lung, prostrate, cervical,	
CC	brain, ovarian, bladder or kidney), immune-related diseases and	
CC	disorders, cardiovascular disease, brain or neuronal-associated diseases	
CC	(e.g., central or peripheral nervous system diseases, migraine, pain,	
CC	sexual dysfunction, mood disorders, attention disorders, cognition	
CC	disorders, hypotension, hypertension, psychotic disorders, neurological	
CC	disorders and dyskinesias), metabolic disorders and inflammatory	
CC	disorders. (I) may also be useful as a diagnostic tool for a disease or	
CC	disorder such as those above. AAS97159-AAS97195 represent human protease	
CC	coding sequences and primers of the invention	
XX	Sequence 1428 BP; 340 A; 357 C; 436 G; 295 T; 0 U; 0 Other;	
SQ	Query Match 20.9%; Score 467.8; DB 6; Length 1428;	
	Best Local Similarity 58.9%; Pred. No. 1.8e-92;	
	Matches 827; Conservative 0; Mismatches 572; Indels 6; Gaps 1;	
QY	313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGATGGTGG	372
Db	20 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG	79
QY	373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGA	432
Db	80 CTATCCAGAGTGTCTGCGTGGCCGGAG-----AAGAGAGGGGAAATCAGGAGGATGA	133
QY	433 TGGCCGTGGCTGCGGACAGCGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGG	492
Db	134 TGGAAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTGGAACTGGTGGATATCG	193
QY	493 GTCTCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAAATACCTCCCGTCATCCTGGCCGAAC	552
Db	194 GAAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGTCCCTCCTATTCTGCTCGGCAGGC	253
QY	553 TGGGAGCGGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTTGGACGTGCAGCCTG	612
Db	254 TGGGCTCCGACCCACAGAAAGAACCGTGTGCAATTTACGGGCACCTGGATGTGCAGCCTG	313
QY	613 CTGACCGGGCGGATGGTGGTCTCAGGGACCCCTATGTGTGACGGAGGTAGACGGGAAAC	672
Db	314 CAGCCCTGGAGGACGGCTGGACAGCGCCCTTCACCCTGGTGGAGCGAGACGGCAAGC	373
QY	673 TTTATGGACGAGGACCGACCAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGA	732
Db	374 TGTATGGGAGAGGTTCGACTGATGATAAGGGCCCGTGGCTGGATAAACGCCCTGG	433
QY	733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCCTGTGAATATCAAAATTCATATTGAGGGA	792
Db	434 AAGCGTATCAGAAAAACAGGCCAGGAGATTCTGTCAACGTCGATTTCTGCTCGAAGGCA	493
QY	793 TGGAAAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAGAAAGAACCCGATTCT	852
Db	494 TGGAGGAGTCAGGCTCTGAGGGCTAGACGAGCTGATTTTTCGCCGGAAGACACATTCT	553
QY	853 TCTCTGCTGGACTACATTTGTAATTTTCAGATAAACCTGTGGATCAGCCAAAGGAGCCAG	912
Db	554 TTAAGGATGTGGACTATGTCTGCAATTTCTGACAAATTAATGCTGGGAAAGAAAGCCCT	613
QY	913 CAATCACTTATGGAACCCCGGGGAACAGACTACTTTCATGGTGGAGGTGAAATGCAGAGAC	972
Db	614 GCATCACCTACGGCCTCAGGGGCATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACA	673
QY	973 AGGATTTTCACTCAGGAACCTTTTGTGGCATCTTTCATGAACCAATGGCTGATCTGGTTG	1032
Db	674 AAGACCTCCATTCTGGGGTGTACGGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTT	733
QY	1033 CTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTTCATATCTCTGCTCCCTGGAATCTATGATG	1092
Db	734 TGCTGATGGGCTCTTTTGGTGGACAAGAGGGGGAACATCCTGTATCCCGGCATTAAACGAGG	793

Best Local Similarity 58.5%; Pred. No. 2.6e-92;											
Matches 835; Conservative 0; Mismatches 586; Indels 6; Gaps 1;											
QY	313	TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGG	372	Db	1251	TGCCGAACATGACTCTCTGAAGTCGTGGCGAGCAGGTCACAAGCTACCTAACTAAGAAGT	1310	QY	1393	TCTCCAAAAGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGT	1452
Db	237	TGTTTAAGTACATAGATGAAATACAGGATCGCTACATTAAGAAACTCGCAAAATGGGTGG	296	QY	1453	GGATTGCAAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAAACAGTGT	1512	Db	1311	TTGCTGAAC TACGCAGCCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCT	1370
QY	373	CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTTCAGAATGA	432	Db	1371	GGGTCTCCGACTTCAGTCACTTACCTCATTACCTGGCTGGGAGAAGAGCCATGAAGACAGTTT	1430	QY	1513	TTGGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCC	1572
Db	297	CTATCCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA	350	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490	QY	1573	AGGAGATCGTCCACAAGAGCGTGGTGCTAAATCCGCTGGGAGCTGTTGATGATGGAGAAC	1632
QY	433	TGGCCGTGCTGCGGACACGCTGCAGCGCCTGGGGCCCGTGTGGCCTCGGTGGACATGG	492	Db	1491	AGGAGGCCACGGGCAAGAACGTCATGCTGCTGCCTGTGGGTGAGCGGATGACGGAGCCC	1550	QY	1633	ATTGCGCAGAATGAGAAAATCAACAGGTGGAAC TACATAGAGGGAACCAAAATTATTGCTG	1692
Db	351	TGGAAGTTGCTGCTGCAGATGTTAAGCAGTTTGGGGGCTCTGTGAACTGGTGATATCG	410	QY	1551	ACTCCAGAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGATGCTGGCCG	1610	Db	1573	AGGAGATCGTCCACAAGAGCGTGGTGCTAAATCCGCTGGGAGCTGTTGATGATGGAGAAC	1632
QY	493	GTCCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAAATACCTCCCGTCATCCTGGCCGAAC	552	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	411	GAAACAAAAGTCCCTGATGGCTCGGAGATCCCGTCCCTCCTATTCTGCTCGGCAGGC	470	Db	1611	CGTACCTGTATGAGGTCTCCAGCTGAAGGACTAGGCCCAAGCCCTCT	1657	QY	1573	AGGAGATCGTCCACAAGAGCGTGGTGCTAAATCCGCTGGGAGCTGTTGATGATGGAGAAC	1632
QY	553	TGGGAGCGATCCCAAGAAAGGCAACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTG	612	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	471	TGGGCTTGACCCACAGAAGAACCGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG	530	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	613	CTGACCGGGCGATGGGTGGTCTACGGGACCCCTATGTGCTGACGGAGGTAGACGGGAAC	672	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	531	CAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCCCTGGTGAGCGAGACGGCAAGC	590	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	673	TTTATGGACGAGGACGACCGACAAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGA	732	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	591	TGATGGGAGAGGTTTCGACTGATGATAAGGGCCCGTGGCCGCTGGATAAACGCCCTGG	650	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	733	GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAAATTCATATTGAGGGGA	792	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	651	AAGCGTATCAGAAAACAGGCCAGGAGATTCTGTCAACGTCCGATTCTGCCTCGAAGGCA	710	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	793	TGGAAGAGGCTGGCTCTGTTGGCCCTGGAGGAACTTGTGGAAAAAGAAAGGACCGATTCT	852	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	711	TGGAGGAGTCAGGCTCTGAGGGCCCTAGACGAGCTGATTTTGGCCGGAAAGACACATTCT	770	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	853	TCTCTGGTGTGGACTACATTGTAAATTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAG	912	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	771	TTAAGGATGTGGACTATGTCTGCAATTTCTGACAAATTACTGGCTGGGAAAGAAAGCCCT	830	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	913	CAATCACTTATGGAACCCGGGGACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACC	972	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	831	GCATCACCTACGGCCTCAGGGGCATTGTCTACTTTTTCATCGAGGTGGAGTGCAGCAACA	890	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	973	AGGATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTG	1032	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	891	AAGACCTCCATTCTGGGGTGTACGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTT	950	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1033	CTCTTCTCGTAGCCTGGTAGACTCGTCTGGTCAATATCCTGGTCCCTGGAATCTATGATG	1092	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	951	TGCTGATGGCTCTTTGGTGGACAAGAGGGGGAACATCCTGTATCCCGGCATTAAACGAGG	1010	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1093	AAGTGGTTCCTCTTACAGAAGAGGAAATAAATACATACAAAGCCATCCATCTAGACCTAG	1152	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	1011	CCGTGGCCCGCTCACGGAAGAGGAGCACAAAGCTGTACGACGACATCGACTTTGACATAG	1070	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1153	AAGAATACCGGAATAGCAGCCGGGTTGAGAAAATTTCTGTTTCGATATACTAAGGAGGATTC	1212	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	1071	AGGAGTTTGGCAAGGATGTGGGGCGCAGATCCTCTCTGCACAGCCACAAGAAAGACATCC	1130	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1213	TAATGCACCTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGCTTTGATG	1272	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	1131	TCATGCACCGATGGCGGTACCCGTCCTGTCTCCCTCCATGGCATCGAAGCGCCTTCTCTG	1190	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1273	AGCCTGGAACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCCTAG	1332	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
Db	1191	GGTCTGGGGCCAAGACCGTGATTCGCCAGGAAGGTGGTTGGCAAGTTTCTCCATCAGGCTCG	1250	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490
QY	1333	TCCCTCACATGAATGTGTCTGCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGT	1392	QY	1693	CTTTTCTTAGAGATGGCCAGCTCCATTAAATCACAAGAACCTTCT	1739	Db	1431	TTGCTGTTGAGCCAGACTTGACCAGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTTC	1490

RESULT 54

ADQ99261

ID ADQ99261 standard; cDNA; 2710 BP.

XX AC ADQ99261;

XX 23-SEP-2004 (first entry)

XX DNA encoding human GPCR-like protein seqid 931.

XX ophthalmological; immunomodulatory; cytostatic; antiatherosclerotic;
XX antidiabetic; GPCR-like protein; ophthalmic disorder;
XX neurological disorder; immunological disorder; nephritic disorder;
XX hormonal dysfunction; cancer; atherosclerosis; diabetes;
XX molecular weight marker; food supplement; human; ss.

XX Homo sapiens.

XX US659662-B1.

XX 27-MAY-2003.

XX 19-JUL-2000; 2000US-00620312.

XX 21-JAN-2000; 2000US-00488725.

XX 25-APR-2000; 2000US-00552317.

XX (HYSE-) HYSEQ INC.

XX Tang YT, Zhou P, Drmanac RT;

XX WPI; 2001-442255/47.

XX New G-protein-coupled receptor-like polypeptides and polynucleotides,
PT useful for treating diseases of ophthalmic, neurological, immunological
PT and nephritic systems and hormonal dysfunction, cancer, atherosclerosis
PT and diabetes.

XX Example 2; SEQ ID NO 931; 92pp; English.

XX The invention describes an isolated polynucleotide (I) comprising a fully
CC defined (SI) of 749, 3188, 2484, 1169, 2936, 1467, 5773, 5714, 4041,
CC 1372, 3996, 3945, 2735, 1788, 585, 1782, 927, 5714 or 2282 nucleotides as
CC given in the specification, its translated or protein coding portion, its
CC extracellular portion or its active domain. The GPCR-like polypeptides
CC and polynucleotides are useful for the treatment of diseases of

PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
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PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218230P.
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PR 26-JUL-2000; 2000US-0220964P.
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PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
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PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226688P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
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PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
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PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
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PR 08-SEP-2000; 2000US-0232081P.
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PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
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PR 21-SEP-2000; 2000US-0234274P.
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PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
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PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
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PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
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PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
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PR 17-NOV-2000; 2000US-0249210P.
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PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-465573/50.

P-PSDB; AAM99954.

Isolated digestive system associated polypeptide for treating, preventing and/ or prognosing disorders related to the digestive system including digestive system cancers and also for testing and detection e.g. diagnosis.

Claim 1; SEQ ID NO 29; 509pp + Sequence Listing; English.

CC The invention relates to novel genes (AA199548-AA199604) and proteins
CC (AAM9936-AAM9984) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX

SQ Sequence 2659 BP; 660 A; 665 C; 737 G; 597 T; 0 U; 0 Other;

Query Match 19.9%; Score 446; DB 4; Length 2659;
Best Local Similarity 58.5%; Pred. No. 1.3e-87;
Matches 835; Conservative 0; Mismatches 585; Indels 8; Gaps 3;

QY 313 TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGG 372
DB 173 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAGAACTCGCAAAATGGGTGG 232
QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGA 432
DB 233 CTATCCAGAGTGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA 286
QY 433 TGGCCGTGGCTGGGACACGCTGCAGCGCTGGGGGCCCCGTGGCCTCGGTGGACATGG 492
DB 287 TGGAAAGTTGCTGTCAGATGTTAAGCAGTTGGGGGGCTCTGTGAACTGGTGGATATCG 346
QY 493 GTCCTCAGAGTGCCCGATGGTGCAGAGTCTTCCAATACCTCCC-GTCATCCTGGCCGAA 551
DB 347 GAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTTCTGCTCGGCAGG 406
QY 552 CTGGGAGCGATCCACGAAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCT 611
DB 407 CTGCGCTCCGACCCACAGAAGAAGACCCTGTGCATTTACGGGCACCTGGATGTGACGCT 466
QY 612 GCTGACCGGGCGATGGTGGCTCAGGACCCCTATGTGCTGACGGAGGTAGACGGGAAA 671
DB 467 GCAGCCCTGGAGGACGGCTGGGACAGCGAGCCCTTCACCCTGTGTGGAGCGAGACGGCAAG 526
QY 672 CTTTATGGACGAGGACGACCGCACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTG 731
DB 527 CTGTATGGGAGAGGTTCCGACTGATGATAAGGGCCCCGGTGGCCGCTGGATAAACGCCCTG 586
QY 732 AGCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAATTCATTCATTGAGGGG 791
DB 587 GAAGCGTATCAGAAAAACAGGCCAGGAGATTCCTGTCAACCGTCCGATTCCTGCCTCGAAGGC 646
QY 792 ATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGAAAAAGAAAGGACCGGATTC 851
DB 647 ATGGAGGAGTCAGGCTCTGAGGGCCTAGACGAGCTGATTTTGGCCCGGAAAGACACATTC 706
QY 852 TTCTCTGTGTGGACTACATTTGTAATTTTCAGATAAACCTGTGGATCAGCCAAAGGAAGCCA 911
DB 707 TTTAAGGATGTGGACTATGTCTGCATTTCTGACAATTACTGGCTGGGAAAGAAAGGCC 766
QY 912 GCAATCACTATATGGAACCCGGGGAAACAGACTACTTTCATGGTGGAGGTGAAATGCAGAGAC 971
DB 767 TGCATCACCTACGGCCTCAGGGGCACTTGTCTACTTTTTCATCGAGGTGGAGTGCAGCAAC 826
QY 972 CAGGATTTTCACTCAGGAACCTTTTGGTGGCATCTTTCATGTAACCAATGGCTGATCTGGTT 1031
DB 827 AAAGACCTCCATTCTGGGTGTACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTT 886
QY 1032 GCTCTTCTCGGTAGCCTGGTAGACTCTGCTGGTGCATATCTCTGGTCCCTGGAATCTATGAT 1091

DB 887 TTGCTGATGGGCTCTTTTGGTGACAAGAGGGGAAACATCTGTATCCCCGGCATTAACGAG 946
QY 1092 GAAGTGGTTCCTCTTACAGAAGAGGAAAATAAATACAFACAAAGCCATCCATCTAGACCTA 1151
DB 947 GCCGTGGCCGCGTACCGGAAGAGGAGCACAAAGCTGTACGACGACATCGACTTTGACATA 1006
QY 1152 GAAGAATACCGGAATAGCAGCGCGGTTGAGAAATTTCTGTTGATATAAAGGAGGAGATT 1211
DB 1007 GAGGAGTTTGGCAAGGATGTGGGGGCGAGATCTCTCTGCACAGCCACAAGAAAGACATC 1066
QY 1212 CTATGACACTCTGGAGGTACCCATCTCTTTCTATTCATGGGATCGAGGGCGCTTTGAT 1271
DB 1067 CTATGACCGATGGCGGTACCCGTCTCTGTC-CCCTCTGGCATCGAAGGCGCTTCTCT 1125
QY 1272 GAGCCTGGAACTAAAACAGTCATACCTGGCCGAGTTATAGGAAAAATTTCAATCCGTCTA 1331
DB 1126 GGGTCTGGGGCCAAGACCGTGATTCAGGAAGGTTGGCAAGTTCTCCATCAGGCTC 1185
QY 1332 GTCCTCACAATGAATGTGTCTCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTG 1391
DB 1186 GTGCCGAACATGACTCCTGAAGTCTGCGGCGAGCAGGTACAAGCTACCTAACTAAGAAG 1245
QY 1392 TTCTCCAAAAAGAAATAGTTCCAAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCG 1451
DB 1246 TTTGCTGAACACTACGCAGCCCCCAATGAGTTCAGGTGTACATGGGCCACGCTGGGAAGCCC 1305
QY 1452 TGGATTGCAAATATTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAAACAGTG 1511
DB 1306 TGGTCTCCGACTTCAGTCACTTCTTACCTGGCTGGGAGAGAGCCATGAAGACAGTT 1365
QY 1512 TTTGGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTTCCAATTTGCCAAATGTTT 1571
DB 1366 TTTGGTGTGAGCCAGACTTGACCAGGGAAGCGCGCAGTATTTCCCGTGACCTTTCACCTTT 1425
QY 1572 CAGGAGATCGTCCACAAGACGCTGGTGTCTAATTTCCGCTGGGAGCTGTTGATGATGGAGAA 1631
DB 1426 CAGGAGGCCACGGGCAAGAAAGCTCATGCTGCTGCTGTGGGTGACGGATGACGAGCC 1485
QY 1632 CATTCGCAGAAATGAGAAATCAACAGGTGGAACTACATAGAGGGAACCAATATTATTGCT 1691
DB 1486 CACTCCCAGAAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGATGCTGGCC 1545
QY 1692 GCCTTTTCTTAGAGATGGCCCCAGCTCCATTAATCAAAAGAACCTTCT 1739
DB 1546 GCGTACCTGTATGAGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 1593

RESULT 57
ACH13751
ID ACH13751 standard; cDNA; 456 BP.
XX
AC ACH13751;
XX
DT 13-OCT-2003 (first entry)
XX
DE Human adult brain cDNA #963.
XX
KW Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST;
KW genome mapping; biodiversity; genetic disorder.
OS Homo sapiens.
XX
PN US2003073623-A1.
XX
PD 17-APR-2003.
XX
PF 30-JUL-2001; 2001US-00918995.
XX
PR 30-JUL-2001; 2001US-00918995.
PA (DRMA/) DRMANAC R T.
PA (LABA/) LABAT I.

PA (STAC/) STACHE-CRAIN B.
PA (DICK/) DICKSON M C.
XX (JONE/) JONES L W.
PI Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
XX WPI; 2003-615964/58.
XX
PT New polynucleotide sequences obtained from various cDNA libraries, useful
PT as hybridization probes, as oligomers for PCR, for chromosome and gene
PT mapping, in the recombinant production of protein, or in generating
PT antisense DNA or RNA.
XX
PS Claim 1; SEQ ID NO 963; 44pp; English.
XX
CC The invention relates to an isolated polynucleotide comprising any one of
CC 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was
CC determined by the technique of SBH (sequencing by hybridisation). Also
CC included is a purified polypeptide comprising a sequence corresponding to
CC a reading frame of the novel polynucleotide. The nucleic acid sequences
CC are useful in diagnostics as expressed sequence tags (EST) for
CC identifying expressed genes or for physical mapping of the human genome,
CC in forensics, in assessing biodiversity, or in identifying mutations
CC responsible for genetic disorders and other traits. The nucleotide
CC sequences are also useful as hybridisation probes, as oligomers for PCR,
CC for chromosome and gene mapping, in the recombinant production of
CC protein, or in generating antisense DNA or RNA. The purified polypeptide
CC is useful for generating antibodies specific for it. The present sequence
CC is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data
CC for this patent did not form part of the printed specification, but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030073623
XX
SQ Sequence 456 BP; 82 A; 134 C; 137 G; 100 T; 0 U; 3 Other;

Query Match 18.2%; Score 407.4; DB 9; Length 456;
Best Local Similarity 99.1%; Pred. No. 2.2e-79;
Matches 421; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
QY 135 GGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCC 194
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
32 GGCACCTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGAGGCTTCAGAACTCC 91
QY 195 AGCCTAATGGATCCCAAACTCGGGAGAAATGGCTGCCCTGCTGGCTG---TGCTGCTG 251
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
92 AGCCTAATGGATCCCAAACTCGGGAGAAATGGCTGCCCTGCTGGCTGCTGCTGCTG 151
QY 252 CTGCTGCTGGAGCGCGCATGTTCTCCTCACCTCCCCCGCCCGCGCTGTTAGAGAAA 311
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
152 CTGCTGCTGGAGCGCGCATGTTCTCCTCACCTCCCCCGCCCGCGCTGTTAGAGAAA 211
QY 312 GTCTTCCAGTACATGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTG 371
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
212 GTCTTCCAGTACATGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTG 271
QY 372 GCCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATG 431
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
272 GCCATCGAGAGCGACTCTGTCCAGCCTGTGCTCGCTTCAGACAAGAGCTCTTCAGAAATG 331
QY 432 ATGGCCGTGGCTCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATG 491
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
332 ATGGCCGTGGCTCGGACACGCTGCAGCGCTGGGGGCCCGTGTGGCCTCGGTGGACATG 391
QY 492 GGTCTTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAA 551
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
392 GGTCTTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAA 451
QY 552 CTGGG 556
Db |||||
452 CTGGG 456

RESULT 58

ABL18867
ID ABL18867 standard; DNA; 1347 BP.
XX
AC ABL18867;
XX
DT 26-MAR-2002 (first entry)
XX
DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 8074.
XX
KW Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical; gene; ds.
XX
OS Drosophila melanogaster.
XX
PN WO200171042-A2.
XX
PD 27-SEP-2001.
XX
PF 23-MAR-2001; 2001WO-US009231.
XX
PR 23-MAR-2000; 2000US-0191637P.
PR 11-JUL-2000; 2000US-00614150.
XX
PA (PEKE) PE CORP NY.
XX
PI Venter JC, Adams M, Li PWD, Myers EW;
XX WPI; 2001-656860/75.
XX
PT New isolated nucleic acid detection reagent for detecting 1000 or more
PT genes from Drosophila and for elucidating cell signaling and cell-cell
PT interactions.
XX
PS Claim 1; SEQ ID NO 8074; 21pp + Sequence Listing; English.
XX
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-
CC ABB72072). The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 1347 BP; 377 A; 278 C; 359 G; 333 T; 0 U; 0 Other;
Query Match 15.5%; Score 348.2; DB 4; Length 1347;
Best Local Similarity 56.0%; Pred. No. 3e-66;
Matches 709; Conservative 0; Mismatches 543; Indels 15; Gaps 2;
QY 412 GACAAAGACTCTTCAGAATGATGGCGTGGCTGCGGACACGCTGCAGCGCCTGGGGCCC 471
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
83 GAGCGAGATCGGTCGTATGGTGAATGGACCGCGGATCGGCTGAGGTCTCTGGGCGCGG 142
QY 472 GTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATAC 531
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
143 AGACAGAGCTGGCAGATGTGGGTGAGGACTTTGCCGAACGCCGAGATTATACCTCTAC 202
QY 532 CTCCCGTCATCCTGGCCGAACCTGGGAGCGGATCCCACGAAGSCACCGTGTCTTCTACG 591
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
203 CAAAGGTTCTGTGGGAACCTTTGGGCAAGACCCCTCTAAGAAGACCGTGTGGTCTATG 262
QY 592 GCCACTTGGACGTGCAGCCTGTGACCGGGCGATGGGTGGTGGTCCAGGACCCCTATGTGC 651
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
263 GTCATTTGGATGTGCAGCCCGCCCTGAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 322
QY 652 TGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGGACCGACAAAGGCCCTGTCT 711
Db ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
323 TTACAGAGGTGGATGGAAAACCTGTTGGACCGGGGCAATCCGACGACAAAGGACCTGTC 382
QY 712 TGGCTTGGATCAATGCTGTGAGCGGCTTCAGAGCCCCTGGAGCAAGATCTTCTGTGAATA 771

Db 383 TGTGCTGCATCCACGCTATCGAAGCTTATCAGAAGCTCAACATTGCACCTGCCTGTGAATG 442
Qy 772 TCAATTCATCATTTGAGGGGATGGAAGAGGCTGGCTCTGTGTCCTGGAGGAACCTTGTGG 831
Db 443 TTAATTCGTATTTGAGGGAATGGAGGAAGCGGCAGCGAAGGCCTCGATGACTTGTAT 502
Qy 832 AAAAGAAAAGGACCGATTCTTCTCTGGTGGACTACATTTGTAATTTTCAGATAACCTGT 891
Db 503 TGAACGTAAAGATAAATTTCTTAGCGGATGTTGATTTTGTTCATATCCGATAACTACT 562
Qy 892 GGATAGCCAAAGGAAGCCAGCAATCACTTATGGAAACCCGGGGAAACAGCTACTTCAATGG 951
Db 563 GGCTTGGAAAAAAGCCCTTGCCTTCACATATGGGCTTCGGCGTTTGGCATACTTTCAAG 622
Qy 952 TGGAGGTCAAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATG 1011
Db 623 TGGAGGTGGAATGCTCCAGCAAGACTTGCATAGTGGAGTTTGTGGGGGTACAGTTCACG 682
Qy 1012 AACCAATGGCTGATCTGTGTGCTCTTCTCGGTAGCTCGTGTAGACTCGTCTGGTCAATCC 1071
Db 683 AAGCAATGCGGATCTGTGTCAATTTGCTGAGCATTTCTTGTGATAAAGATACAAATATCC 742
Qy 1072 TGGTCCCTGGAATCTATGATGAAGTGGTTCCTTCTTACAGAAGAGGAATAAATACATACA 1131
Db 743 TAGTCCCTGGTGGATCGCGACGTCGCACCACAGATTAAGACGAGCAATCTATATATG 802
Qy 1132 AAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGGTTGAGAAATTTCTGT 1191
Db 803 AGAACATAGACTTTGAAGTTTCTGAGTACAAGAAAGACATTTGGTGTGAACAGCTGCCG 862
Qy 1192 TCGATACTAAGGAGGAGATTCTAATGCA---CCTCTGGAGGTHACCATCTCTTTCTATTTC 1248
Db 863 ATAATGGCGATAAAACAAGTTTACTTCAAGCCAGGTGGCGTATFCCAGTCTTTCTGTTC 922
Qy 1249 ATGGGATCGAGGCGCGTTTGTATGAGCTGGAACTAAACAGTACATACCTGGCCGAGTTA 1308
Db 923 ACGGAATTGAAGGTGCATTTTATGAGCCAGGCGCAAAAACCTGTCAATCCGAAGAAGTTA 982
Qy 1309 TAGGAAAATTTTCAATCCGTCIAGTCCCTCACATGAATGTCTGCGGTGGAAAAACAGG 1368
Db 983 TTGGTAAGTTCTCTATTCGCCTTGTCCCAACCAAGATCCAAAGCATATTGAGGAGTGTG 1042
Qy 1369 TGACACGACATCTTGAAGATGTGTTCTCCAAAAAGAAATAGTTCCAACAAGATGGTTGTTT 1428
Db 1043 TTGTAATAATACCTTAATGATAAATGGGCCGAGCGAGGATCTCTTAACAAAAATGAAGTTT 1102
Qy 1429 CCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACCCAGTATCTCGCAG 1488
Db 1103 CTGGCA-----AGCCCTGGACTGAGGACCCCTAACCATCTCTCATATGAGGCTG 1150
Qy 1489 CAAAAGAGCGGATCAGAACAGTGTTTTGGAAACAGAACAGATATGATCCGGGATGGATCCA 1548
Db 1151 CAAAAGAGGCCATAAAGCATGTTTTCATGTGGAACAGATATGACCCGGAAGGGGAT 1210
Qy 1549 CCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGGTGGTGCTAATTCGGC 1608
Db 1211 CTATTCCAGTAACGTTAAACATTTTCAATGTGGAACAGATATGACCCGGAAGGGGAT 1270
Qy 1609 TGGGAGCTGTTGATGATGGAGAACATTCGAGAATGAGAAAAATCAACAGGTGGAACTACA 1668
Db 1271 TGGGTGCATGTGACGACGGTGGCCATTCTCAAAATGAGAAAAATCGATATTTACAATTACA 1330
Qy 1669 TAGAGGG 1675
Db 1331 TCGAAGG 1337

RESULT 59
ABL18871
ID ABL18871 standard; DNA; 1389 BP.
XX
AC ABL18871;

XX 26-MAR-2002 (first entry)
XX Drosophila melanogaster genomic polynucleotide SEQ ID NO 8086.
DE Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical; gene; ds.
KW Drosophila melanogaster.
XX WO200171042-A2.
XX 27-SEP-2001.
XX 23-MAR-2001; 2001WO-US009231.
XX 23-MAR-2000; 2000US-0191637P.
PR 11-JUL-2000; 2000US-00614150.
XX (PEKE) PE CORP NY.
PA Venter JC, Adams M, Li PWD, Myers EW;
XX WPI; 2001-656860/75.
DR New isolated nucleic acid detection reagent for detecting 1000 or more
XX genes from Drosophila and for elucidating cell signaling and cell-cell
XX interactions.
XX Claim 1; SEQ ID NO 8086; 21pp + Sequence Listing; English.
CC The invention relates to an isolated nucleic acid detection reagent
CC capable of detecting 1000 or more genes from Drosophila. The invention is
CC useful in developmental biology and in elucidating cell signalling and
CC cell-cell interactions in higher eukaryotes for the development of
CC insecticides, therapeutics and pharmaceutical drugs. The invention
CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-
CC ABB72072). The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX Sequence 1389 BP; 389 A; 287 C; 365 G; 348 T; 0 U; 0 Other;
SQ
Query Match 15.5%; Score 348.2; DB 4; Length 1389;
Best Local Similarity 56.0%; Pred. No. 3e-66;
Matches 709; Conservative 0; Mismatches 543; Indels 15; Gaps 2;
Qy 412 GACAAGAGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCC 471
Db 125 GAGCGAGATCGGTCTGATGTGTGAATGGACCGCGATCGCTGAGGTCTCTGGGCGCG 184
Qy 472 GTGTGCCTCGGTGGACATGGTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATAC 531
Db 185 AGACAGAGCTGGCAGATGTGGGTACAGACACTTTGCCGACGCGCCAGATTATACCTCTAC 244
Qy 532 CTCCCGTCATCTTGCCCGAATCTGGGGAGCGATCCCAAGAAAGCACCGTGTGCTTCTACG 591
Db 245 CAAAGGTTCTGTGGAACTTTTGGGCAAGACCCCTCTAAGAAAGACCGTGTGCTCTATG 304
Qy 592 GCCACTTGGACGTGCAGCCTGTGACCGGGCGATGGTGGCTCAGGACCCCTATGTGC 651
Db 305 GTCATTTGGATGTGACGCCCGCCTGAAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 364
Qy 652 TGACGGAGGTAGACGGGAACTTTTATGGACGAGGAGCGACCGAACAAAGGCCCTGTCT 711
Db 365 TTACAGAGGTGGATGGAATACTGTTGGACCGGGGATCCGACGACAAAGGACCTGTT 424
Qy 712 TGGCTTGGATCAATGCTGTGAGCGCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATA 771
Db 425 TGTGCTGGATCCACGCTATCGAAGCTTATCAGAAGCTCAACATTTGCACCTGCCTGTGAATG 484
Qy 772 TCAATTCATCATTTGAGGGGATGGAAGGCTGGCTCTGTGTCCTTGAGGAACCTTGTGG 831

Db 485 TTAATTCGTATTAGGGAATGGAGAAAGCGGACGGAAGCCTCGATGACTGTGTAT 544
QY 832 AAAAAAGAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTAATTCAGATAACCTGT 891
Db 545 TGAACGTAAGATAATTCTTAGCGGATGTTGATTGTTGCATATCCGATAACTACT 604
QY 892 GGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAAACCCGGGGGAACAGCTACTTCATGG 951
Db 605 GGCTTGGAAAAAAGAAACGCCCTTGGCTCACATATGGGCTTCGCGGTTTGGCATACTTTCAAG 664
QY 952 TGGAGGTGAAATGCAGAGACGAGGATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATG 1011
Db 665 TGGAGGTGAAATGCTCCAGCAAGACTTGCATAGTGGAGTTTGTGGGGTACAGTTCACG 724
QY 1012 AACCAATGGCTGATCTGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTCATATCC 1071
Db 725 AAGCAATGCCGATCTGTGTCATTGCTGAGCAATCTTGTGATAAAGATACAAATATCC 784
QY 1072 TGGTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAAGAGGAAATAAATACATACA 1131
Db 785 TAGTCCCTGGTGTGGATCGGACGTCGCACCACAGATTAAGAACGAGCAATCTATATATG 844
QY 1132 AAGCCATCCATCTAGACCTAGAAGAAATACCGGAATAGCAGCCGGTTTGAGAAATTTCTGT 1191
Db 845 AGAACATAGACTTTTGAAGTTTCTGAGTACAAGAAAGACATTTGGTGTGAAACAGCTGCCG 904
QY 1192 TCGATACTAAGGAGGAGATTCTAATGCA---CCTCTGGAGGTACCCATCTCTTTCTATTTC 1248
Db 905 ATAATGGCGATAAAACAAAGGTACTTCAAGCCAGGTGGCGCTATCCAGTCTTTCTGTTC 964
QY 1249 ATGGGATCGAGGGCGGTTTGTGATGAGCCTGGAACCTAATAAACAGTCATACCTGGCCGAGTTA 1308
Db 965 ACGGAATTGAAGGTGCAATTTATGAGCCAGCGCGCAAAACTGTCAATCCGAAGAAGTTA 1024
QY 1309 TAGGAAATTTTCAATCCGTCTAGTCCCTCACATGAATGTGTCTGCGGTGGAACAAACAGG 1368
Db 1025 TTGGTAAGTTCTCTATTCCGCTTGTCCCAACCCAGATCCAAAGCATATTGAGGAGTGTG 1084
QY 1369 TGACACGACATCTTGAAGATGTGTTCTCCAAAGAAATAGTTCCAACAAGATGGTTGTTT 1428
Db 1085 TTGTAATAATACCTTAATGATAAATGGGCCGAGCGGAGATCTCCTAACAAATGAAGTTT 1144
QY 1429 CCATGACTCTAGGACTACACCCGTGGATTGCAATATTGATGACACCCAGTATCTCGCAG 1488
Db 1145 CTGGCA-----AGCCCTGGACTGAGGACCCCTAACCATCCTCATATGAGGCTG 1192
QY 1489 CAAAAGAGCGATCAGAACAGTGTGTTGGAAACAGAACCCAGATATGATCCGGATGGATCCA 1548
Db 1193 CAAAAGAGCCATAAAGCATGTTTCAATGTGGAACCCAGATATGACCCGCAAGGGGGAT 1252
QY 1549 CCATTCCAATTGCCAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTGTCTAATTCGCG 1608
Db 1253 CTATTCAGTAACGTTAAACATTGCAGGAAGCCACTGGTAAACCGTTATCCTTGTGCCAG 1312
QY 1609 TGGGAGCTGTTGATGATGAGAGAACATTTCGCAGAAATGAGAAAATCAACAGGTGGAACATA 1668
Db 1313 TGGGTGCATGTGACGACGGTGCCCATTTCTCAAATGAGAAAATCGATATTTACAATTACA 1372
QY 1669 TAGAGGG 1675
Db 1373 TCGAAGG 1379

RESULT 60

AAS80063
ID AAS80063 standard; cDNA; 1047 BP.

XX
AC AAS80063;

XX
DT 13-FEB-2002 (first entry)

XX
DE DNA encoding novel human diagnostic protein #15867.

XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX Homo sapiens.
XX WO200175067-A2.
XX 11-OCT-2001.
XX 30-MAR-2001; 2001WO-US008631.
XX 31-MAR-2000; 2000US-00540217.
XX 23-AUG-2000; 2000US-00649167.
XX (HYSE-) HYSEQ INC.
XX Drmanac RT, Liu C, Tang YT;
XX WPI; 2001-639362/73.
XX P-PSDB; ABG15876.
XX New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
XX Claim 1; SEQ ID NO 15867; 103pp; English.
XX The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX SQ Sequence 1047 BP; 246 A; 268 C; 313 G; 220 T; 0 U; 0 Other;

Query Match 15.2%; Score 340.2; DB 5; Length 1047;
Best local Similarity 58.6%; Pred. No. 1.6e-64;
Matches 608; Conservative 0; Mismatches 428; Indels 1; Gaps 1;

QY 660 GTAGACGGGAAACTTTATGGACGAGGAGCGGACCGACAAAGCCCTGTCTTGGCTTGG 719
Db 5 GTAGACGGCAAGCTGCATGGGAGAGGTTGCACTGATGATATTGGCCCGGTGGCGGCTGG 64

QY 720 ATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCTGTGAATATCAAATTC 779
Db 65 ATAAACGCCCTGGAAAGCGTATCAGAAAAACAGGCCAGGAGACTCTCTGTCAACGTCCGATTC 124

QY 780 ATCATTGAGGGGATGGAAGAGGCTGGCTCTGTTGCCCTGGAGGAACTGTGGAAAAAGAA 839
Db 125 TGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAGGCGCTAGACGAGCTGATTTTGGCCCG 184

QY 840 AAGGACCGATTCTTCTCTGGTGTGGACTACATTTGTAATTTTCAGATAACCTGTGGATCAG 899
Db 185 AAAGACACATTTCTTAAGGATGTGGACTGCGTCTGCAATTTCTGACAATTACTGGCTGGA 244

QY 900 CAAAGGAGCCAGCAATCACTTATGGAACCCGGGGAAACAGCTACTTTCATGGTGGAGGTG 959
Db 245 AAGAAGAAGCCCTGCATCACCTACGGCCTCAGGGCATTGCTACTTTTCATCGAGGTG 304
QY 960 AAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATCCTTTCATGAACCAATG 1019
Db 305 GAGTGCAGCAACAAAGACCTCCATTCTGGGGTGTACGGGGCTCGGTGCATGAGGCCATG 364
QY 1020 GCTGATCTGGTTGCTTCTTCGGTAGCCCTGGTAGACTCGTCTGGTCAATATCCTGGTCCCT 1079
Db 365 ACTGATCTCAATTTTGCTGATGGGCTCTTTGGTGACAAGAGGGGGAACATCCTGATCCCC 424
QY 1080 GGAATCTATGATGAAGTGGTTCTCTTACAGAAGAGGAAATAAATACATACAAAAGCCATC 1139
Db 425 GGCATTAACGAGCGCTGGCGCCGCTCACGGAAGAGGAGCACAAAGCTGTACGACGACATC 484
QY 1140 CATCTAGACCTAGAGAATAACCGGAATAGCAGCCGGGTTGAGAAATTTCTGTTCGATACT 1199
Db 485 GACTTTGACATAAAGGAGTTTGCCAAGGATGTGGGGCGCGAGATCCTCTGCACAGCCAC 544
QY 1200 AAGGAGGAGATTCTAATGCACCTCTGGAGGTACCCCATCTCTTTCTATTTCATGGATCGAG 1259
Db 545 AAGAAAGACATCCTCATGCACCGATGGCGGTACCCGCTCTCTGTCCCTCCATGGCATCGAA 604
QY 1260 GCGCGCTTTGATGAGCCTGGAACTAAACACAGTCATACCTGGCCGAGTTATAGGAAATTT 1319
Db 605 GCGCCTTCTCTGGGTCTGGGGCCAAAGACCGTGATTTCCAGGAAGTGGTTGGCAAGTTC 664
QY 1320 TCAATCCGCTAGTCCCTCACATGAATGTGTCTGCGGTGGGAAAAACAGGTGACACGACAT 1379
Db 665 TCCATCAGGCTCGTGCCGAACATGACTCCTGAAATCGTCTGGCGAGCAGGTCAAGCTAC 724
QY 1380 CTTGAAGATGTGTTCTCCAAAAGAAATAGTTCAAACAAGATGGTTGTTTCCATGACTCTA 1439
Db 725 CTAACATAAGAGTTTGCTGAACACTACGACGCCCAATGAGTTCAAGGTGTACATGGGCCAC 784
QY 1440 GGACTACACCCGTGGATTGCAAATATTGATGACACC-CAGTATCTCGCAGCAAAAAGAGC 1498
Db 785 GGTGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCTCATTTACCTGGCTGGGAGAGAGC 844
QY 1499 GATCAGAACAGTGTGGAACAGAACCCAGATATGATCCGGGATGGATCCACCATTCCAAT 1558
Db 845 CATGAAGACAGTTTGTGGTGTGAGCCAGACTTGACCAGGGAAGSGCGCAGTATTCCTCGT 904
QY 1559 TGCCAAAATGTTCCAGGAGATCGTCCACAAGAGCGTGGTGCTAATTCGCTGGGAGCTGT 1618
Db 905 GACCTTGACCTTTCAGGAGGCCACGGGCAAGAACGTATGCTGTGCTGCTGTTGGGTGAGC 964
QY 1619 TGATGATGGAGACATTCGCAGAAATGAGAAAATCAACAGGTGGAACTACATAGAGGGAAC 1678
Db 965 GGATACGGAGCCCACTCCAGAAATGAAAAGCTCAACAGGTATAACTACATAGAGGGAAC 1024
QY 1679 CAAATTATTGCTGCCT 1695
Db 1025 CAAGATGCTGGCCGCT 1041

RESULT 61
ACC72762
ID ACC72762 standard; cdna; 2349 BP.
XX
AC ACC72762;
XX
DT 09-JUL-2003 (first entry)
XX
DE Human cancer related protein encoding cdna SEQ ID NO:101.
XX
KW Human; cancer; diagnosis; screening; modulator; leukaemia; ischaemia;
KW heart disease; atherosclerosis; endometriosis; gene; ss.
XX
OS Homo sapiens.
XX
PN WO2003025138-A2.

XX 27-MAR-2003.
PD
XX 17-SEP-2002; 2002WO-US029560.
PF
XX 17-SEP-2001; 2001US-0323469P.
PR 20-SEP-2001; 2001US-0323887P.
PR 13-NOV-2001; 2001US-0350666P.
PR 08-FEB-2002; 2002US-0355145P.
PR 08-FEB-2002; 2002US-0355257P.
PR 12-APR-2002; 2002US-0372246P.
XX (EOSB-) EOS BIOTECHNOLOGY INC.
PA Afar D, Aziz N, Gish KC, Hevezi PA, Mack DH, Wilson KE;
PI Zlotnik A;
PI WPI; 2003-354600/33.
DR P-PSDB; ABR58615.
XX
PT New genes that are up-regulated or down-regulated in cancers, useful as
PT markers for diagnosing e.g. cancer, ischemia or heart diseases, or as
PT therapeutic targets for screening drugs for treating these diseases.
XX
PS Claim 8; Page 677; 767pp; English.
XX
CC The present invention describes an isolated nucleic acid molecule, which
CC comprises the sequence of any of the genes that are up-regulated or down-
CC regulated in specific cancers (e.g. about 1031 genes up-regulated in
CC acute lymphocytic leukemia). ACC72641 to ACC72860 represent cancer
CC related gene nucleotide sequences which encode the proteins given in
CC ABR58521 to ABR58709. Also described: (1) determining the presence or
CC absence of a pathological cell in a patient; (2) an expression vector
CC comprising a nucleic acid molecule described above; (3) a host cell
CC comprising the vector; (4) an isolated polypeptide, which is encoded by
CC the nucleic acid; (5) an antibody that specifically binds the polypeptide
CC of (4); (6) specifically targeting a compound to a pathological cell in a
CC patient by administering to the patient the antibody above; and (7) a
CC drug screening assay. The nucleic acid is useful as diagnostic markers or
CC therapeutic targets. In particular, the nucleic acid is useful for
CC diagnosing a pathology, e.g. cancer (e.g. cancer of the bone marrow,
CC bladder, brain, breast, cervix, colon/rectum, kidney, lung, ovary,
CC pancreas, prostate, skin and uterus), wounds, ischaemia, heart diseases,
CC atherosclerosis and endometriosis. The nucleic acid is also useful in
CC drug screening, particularly for identifying agents for treating these
CC pathologies
XX
SQ Sequence 2349 BP; 607 A; 566 C; 640 G; 536 T; 0 U; 0 Other;

Query Match 14.9%; Score 334.8; DB 10; Length 2349;
Best Local Similarity 58.7%; Pred. No. 3.1e-63;
Matches 579; Conservative 0; Mismatches 407; Indels 0; Gaps 0;
QY 754 AAGATCTTCTCTGTAATATCAAAATTCATCATTTAGGGGATGGAAGAGGCTGGCTCTGTTG 813
Db 295 AGGAGATTCTCTGTCACGTCGGATTCTGCCTCGAAGGCATGGAGTCAAGCTCTGAGG 354
QY 814 CCCTGGAGGAACCTTGTGAAAAAGAAAAGGACCGATTCTTCTCTGGTGTGGACTACATTG 873
Db 355 GCCTAGACGAGCTGATTTTGTCCCGGAAAGACACATTCTTTAAGGATGTGGACTATGTCT 414
QY 874 TAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGG 933
Db 415 GCATTTCTGACAAATTACTGGCTGGGAAAGAGAGCCCTGCATCACCTACCGCCTCAGGG 474
QY 934 GGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCT 993
Db 475 GCATTTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACAAAGACCTCCATTCTGGGGTGT 534
QY 994 TTGGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAG 1053
Db 535 ACGGGGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTGTCTGATGGGCTCTTTGGTGG 594

	Y	1233	CCATCTCTTTTCTATTCAATGCGGATCGAGGGCGGTTCATGAGCCTGGAACATAAAACAGTC	1292
	D	949	CCTTCGTTGTCCTCATTCATGGTGTTGGAAGGCCTTTTTCCGCTCAAGGTGCAAAGACTGTC	1008
	Y	1293	ATACCTGGCCGAGTTATAGGAAAAATTTCAATCCGCTAGTAGTCCTCACATGAATGTGTCT	1352
	D	1009	ATTCAGCTAAGGTCCTCGGTAAGTTTTCCATTAGAACCCTCCCCGACATGGATTC TGAG	1068
	Y	1353	GCGGTGGAAAAAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAGAAAATAGTTCC	1412
	D	1069	AAACTGACCTCTTTGGTCCAGAAGCATTTGTATGCCAAATTC AAGTCTCTGAACTCTCCA	1128
	Y	1413	AACAAGATGTTGTTTCCATGACTCTAGGACTACACCGTGGATTGCAAAATTTGATGAC	1472
	D	1129	AACAAGTGCAACAGAAATTGATCCATGATGGTGCTTATTGGGTTTCTGATCCATTC AAC	1188
	Y	1473	ACCCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTTTGGAACAGAACCATATG	1532
	D	1189	GCCCAATTTACTGCTGCTAAAAGGCCACAAAACTGGTCTATGGTGTGATCTCTGATTTT	1248
	Y	1533	ATCCGGGATGGATCCACCATTCCAATTGCCAAAAATGTTCCAGGAGATCGTCCACAAGGC	1592
	D	1249	ACCAGGGAAGGTGGTTCATTCCTATCACTTTGACTTTCCAAGATGCCCTTGAACACTAGT	1308
	Y	1593	GTGGTGCTAATTCGCTGGGAGCTGTTGATGAGGAGAACATTCCGAGAAATGAGAAAAATC	1652
	D	1309	GTCTTATTGCTGCCAATGGGTAGAGGCGGATGATGGTGCTCATTC AATCAATGA AAAAGTTA	1368
	Y	1653	AACAGGTGGAAC TACATAGAGGGAACCAAAATATTGCTGCCTTTTT	1699
	D	1369	GATATTTCAAATTTGTTGGTGGTATG AAGACGATGGCTGCTTACTT	1415

proteins are selected from given protein complexes, which are not defined in the specification. The variants are encoded by nucleic acids that hybridize to the nucleic acids encoding the proteins under low stringency conditions. The protein complexes are useful as targets for an active agent of a pharmaceutical. These protein complexes are particularly useful as drugs targets for the treatment or preventing of a disease or disorder. The complexes and methods above are useful in diagnosing or screening for the presence of a disease or disorder or a predisposition for developing a disease or disorder in a subject. These are also useful in screening for a drug for treatment or prevention of a disease or disorder. The molecule that modulates the amount, activity or protein components of the complex is useful for the manufacture of a medicament for the treatment or prevention of a disease or disorder. This sequence corresponds to a gene of the invention. (Note: the sequence data for this patent did not form part of the printed specification but was obtained from the EPO in electronic format).

SQ Sequence 1446 BP; 392 A; 295 C; 325 G; 434 T; 0 U; 0 Other;

Query Match 13.6%; Score 304.2; DB 10; Length 1446;
Best Local Similarity 54.2%; Pred. No. 1.4e-56;
Matches 643; Conservative 0; Mismatches 538; Indels 6;

QY	519	AGTCTTCCAATACCTCCCGTCACTCTGGCGAACTGGGGAGCGATCCCAACGAAAGGCACC	578
Db	229	AATCTGTCTACCTCCTGTGATTCTGTCTAGGTTGGCAGCGACCCCTTCAAAAAAGACT	288
QY	579	GTGTGCTTCTACGCCCACTTGGACGTGACCGCTGCTGACCGGGGCGATGGGTGCTCACG	638
Db	289	GTGTTGGTTTACGGTCACTATGATGTGCAACCTGCTCAATTGGAAGATGGTTGGGATACT	348
QY	639	GACCCCT-----ATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGACC	692
Db	349	GAGCCATTCAAGCTTGTCAATTGATGAGGCTAAAGGTATCATGAAAGGAAGGGGTGTCACC	408
QY	693	GACAAACAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAG	752
Db	409	GATGACACTGGTGCCCTTATTATCTTGGATTAACTGTGTGAGCGCCTTCAAAGCCTCCGA	468
QY	753	CAAGATCTTCTGTGAATATCAAATTCAATTGAGGGGATGGAAGAGCGTGGCTCTGTT	812
Db	469	CAAGAATCCCGCTTAACTTAGTTACTTGTTCGAAGGAATGGAGGAAAGTGGTTCTTTG	528
QY	813	GCCCTGGAGGAACCTGTGGAAAAAGAAAGAACCGGATTCCTCTCTGTTGGACTACATT	872
Db	529	AAATTGGATGAATTGATTAAAAAGGAAGCTAAATGGTTACTTTAAAGGTGTAGATGCCGTT	588
QY	873	GTAATTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCCG	932
Db	589	TGTAATTCGATAAATTACTGGCTAGGCACCTAAGAAAGCCTGTTTGTACCTTATGGTCTAAGA	648
QY	933	GGGAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACC	992
Db	649	GGTTGCAACTACTATCAAACCATCATTTGAGGGTCCAAAGTCAGATTTACACTCTGGTATC	708
QY	993	TTTGGTGGCATCCTTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTA	1052
Db	709	TTTGGTGGTGTGTGCTGAACCAATGATCGATTTAATGCAAGTTCTCGGTTCCCTTGTG	768
QY	1053	GACTCGTCTGGTCATATCCTGGTCCCTGGAAATCTATGATGAAGTGGTTCCTCTTACAGAA	1112
Db	769	GATTCCTAAGGTAAGATCCTGATTGACGGTATTGACGAAATGGTTGCTCCTCTAAACCGAA	828
QY	1113	GAGGAATAAATACATACAAAGCCATCCATCTAGACCTAGAAGAATACCGGAATAGCAGC	1172
Db	829	AAGGAGAAGGCTCTATACAAGGATATCGAAATTTAGCGTCGAAGAATTTGAACGCTGCAACT	888
QY	1173	CGGGTTGAGAAAATTTCTGTTTCGATACTAAGGAGGAGATTCTTAATGCACCTCTGGAGGTAC	1232
Db	889	GGCTCTAAGACAAGTTTGTACGACAAGAAGGAAGACATCTTGATGCACAGATGGAGGTAT	948
QY	1233	CCATCTCTTTCTATTTCATGGGATCGAGGGCGGTTTGTATGAGCCTTGGAACTAAAAACAGTC	1292

Db 949 CCTTCGTTGTCCATTCAATGGTGTGAAGGCGCCTTTTCCGCTCAAGGTGCAAGACTGTC 1008
QY 1293 ATACCTGGCCGAGTTATFAGGAAAAATTTTCAATCCGTCAGTCCCTCACATGAATGTGTC 1352
Db 1009 ATTCCAGCTAAGGCTCTCGGTAAGTTTTCATTAGAACCGTCCCCGACATGGATTCTGAG 1068
QY 1353 GCGGTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAAGAATAGTTCC 1412
Db 1069 AAACGTGACCTCTTTGGTCCAGAAGCATTGTGATGCCAAATTCAGTCCCTTGAACCTCCA 1128
QY 1413 AACAAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGAC 1472
Db 1129 AACAAAGTGCAGAACAGAAATGATCCATGATGGTGTATTGGTTTCTGATCCATTCAAC 1188
QY 1473 ACCAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTGTTGGAACAGAACCAAGATATG 1532
Db 1189 GCCCAATTTACTGCTGTCTAAAAGGCCACAAAACCTGGTCTATGGTGTGCTGATCTGATTTT 1248
QY 1533 ATCCGGGATGGATCCACCAATCCCAATTGCCAAATGTTTCCAGGAGATCGTCCACAAGAGC 1592
Db 1249 ACCAGGGAAGGTGGTTCCATTCCCTATCACTTTTGACTTCCAAAGATGCCTTGAACACTAGT 1308
QY 1593 GTGGTGTCTAATTCGCTGGGAGCTGTTGATGATGAGAGAAACATTGCGAGAAATGAGAAAAATC 1652
Db 1309 GTCTTATTGCTGCCAATGGGTAGAGGCGATGATGGTGCTCATTTCAATCAATGAAAAAGTTA 1368
QY 1653 AACAGGTGGAACCTACATAGAGGGAACCAAAATTTATTTGCTGCCTTTT 1699
Db 1369 GATATTTCAAATTTTGTGGTGGTATGAAGACGATGGCTGCTTACTT 1415

RESULT 66
AAC09875
ID AAC09875 standard; cDNA; 300 BP.
XX AAC09875;
AC
XX
DT 06-OCT-2000 (first entry)
XX
DE Human secreted protein 5' EST, SEQ ID NO: 13950.
XX
KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.
XX Homo sapiens.
XX EP1033401-A2.
PN
PD 06-SEP-2000.
XX
PF 21-FEB-2000; 2000EP-00200610.
XX
PR 26-FEB-1999; 99US-0122487P.
XX
PA (GEST) GENSET.
XX
PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
DR WPI; 2000-500381/45.
XX
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS Claim 1; SEQ ID NO 13950; 71pp + Sequence Listing; English.
XX

CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively
CC identified within the present sequence. The 5' ESTs were prepared from
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST
CC sequences usually correspond mainly to the 3' untranslated region (UTR)
CC of the mRNA because they are often obtained from oligo-dT primed cDNA
CC libraries. Such ESTs are not well suited for isolating cDNA sequences

CC derived from the 5' ends of mRNAs and even in those cases where longer
CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'
CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used
CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in
CC diagnostic, forensic, gene therapy and chromosome mapping procedures.
CC They are used to obtain upstream regulatory sequences and to design
CC expression and secretion vectors
XX
SQ Sequence 300 BP; 56 A; 88 C; 77 G; 75 T; 0 U; 4 Other;
Query Match 13.1%; Score 292.8; DB 3; Length 300;
Best Local Similarity 98.3%; Pred. No. 2.7e-54;
Matches 291; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 1 GAATGAATACCTCCGAAGCCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCC 60
Db 5 GARTGAATACCTCCGAAGCCGCTTTGTTCTCCAGATGTGAATAGCTCCACTATACCAGCC 64
QY 61 TCGTCTTCCTCCGGGGGACAACGTGGGTACGGGCACAGAGAGATATTTAATGTACCCCT 120
Db 65 TCRWMTTCCTTCGGGGGACAACGTGGGTACGGGCACAGAGAGATATTTAATGTACCCCT 124
QY 121 CTTGGGGCTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGA 180
Db 125 CTTGGGGCTTTCATGGGACTCCCTCTGCCACATTTTGGAGGTTGGGAAAGTTGCTAGA 184
QY 181 GGCTTCAGAACTCCAGCCTAATGGATCCCAAACTCGGGAGAATGGCTGCCCTGCTGG 240
Db 185 GGCTTCAGAACTCCAGCCTAATGGATCCCAAACTCAGGAGAATGGCTGCCCTGCTGG 244
QY 241 CTGTGCTGCTGCTGCTGCTGGAGCGCGGCATGTTCTCCTCACCCCTCCCCGCCCCCG 296
Db 245 CTGTGCTGCTGCTGCTGCTGGAGCGCGGCATGTTCTCCTCACCCCTCCCCGCCCCCG 300

RESULT 67
AAH14944
ID AAH14944 standard; cDNA; 1920 BP.
XX
AC AAH14944;
XX
DT 26-JUN-2001 (first entry)
XX
DE Human cDNA sequence SEQ ID NO:12848.
XX
KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
XX Homo sapiens.
OS
XX EP1074617-A2.
PN
XX 07-FEB-2001.
PD
XX 28-JUL-2000; 2000EP-00116126.
PF
XX 29-JUL-1999; 99JP-00248036.
PR 27-AUG-1999; 99JP-00300253.
PR 11-JAN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
XX
DR WPI; 2001-318749/34.
+XX

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-
PT length cDNAs defined in the specification, and for the detection and/or
PT diagnosis of the abnormality of the proteins encoded by the full-length
PT cDNAs.
XX

PS Claim 8; SEQ ID NO 12848; 2537pp + Sequence Listing; English.

XX The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesizing polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by cDNAs easily without any specialised methods. AAH03166 to AAH13628 and AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention

XX Sequence 1920 BP; 476 A; 480 C; 520 G; 444 T; 0 U; 0 Other;

SQ Query Match 12.5%; Score 281; DB 4; Length 1920; Best Local Similarity 58.2%; Pred. No. 1.9e-51; Matches 512; Conservative 0; Mismatches 365; Indels 2; Gaps 1;

QY 863 GGACTACATTGTAATTTCAGATAAACCTGTGGATCAGCCAAAGGAGCCAGCAATCACTTA 922

Db 1 GGACTATGTCTGCATTCTGACAATTACTGGCTGGAAAGAGAGCCCTGCATCACCTA 60

QY 923 TGGAAACCCGGGGAAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCA 982

Db 61 CGGCCTCAGGGGCATTGTGCTACTTTTTCATCGAGGTGGAGTGCAGCAAAAGACCTCCA 120

QY 983 CTCAGGAACCTTTGGTGGCATCCTTCATGAACCAATGGCTGATCGTGGTGTCTTCTCGG 1042

Db 121 TTCTGGGGGTACGGGGGCTCGGTGTCATGAGGCCATGACTGATCTCATTTTGTGATGGG 180

QY 1043 TAGCCTGGTAGACTCGTCTGGTCAATATCTGGTCCCTGGAATCTATGATGAAGTGTTC 1102

Db 181 CTCTTTGGTGACAAGAGGGGGAACATCTCTGATCCCCGGCATTAACGAGGCCATGGCCGC 240

QY 1103 TCTTACAGAA--GAGGAAATAAATACAFACAAAGCCATCCATCTAGACCTAGAAGAATAC 1160

Db 241 CGTCACGGAATCAGGAGCAGCAAGCTGTACGACGACATCGACTTTGACATAGAGAGTTT 300

QY 1161 CGGAATAGCAGCGGGTTGAGAAATTTCTGTTCGATACTAAGGAGAGATTTCTAATGCAC 1220

Db 301 GCCAAGGATGTGGGGGCGCAGATCCTCTGCACAGCCACAAAGAAAGACATCCTCATGCAC 360

QY 1221 CTCTGGAGGTACCCATCTCTTTCTATTTCATGGGATCGAGGGCGGCTTTGATGAGCCTGGA 1280

Db 361 CGATGGCGGTACCGTCTCTGTCCCTCCATGGCATCGAAGGCGCTTCTCTGGGTCTGGG 420

QY 1281 ACTAAACAGTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCTAGTCCCTCAC 1340

Db 421 GCCAAGACCCTGATTTCCAGGAAGGTGGTGGCAAGTTCTCCATCAGGCTCGTGCCGAAC 480

QY 1341 ATGAATGTGTCTGGGTGGAAAAACAGGTGACAGCATCTTGAAGATGTGTTCTCCAAA 1400

Db 481 ATGACTCTCTGAAGTCGTCTGGCGAGCGAGGTCACAAGCTACCTAACTAAGAAAGTTTGTGAA 540

QY 1401 AGAAATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGATTGCA 1460

Db 541 CTACGCAGCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCC 600

QY 1461 AATATTGATGACACCCAGTATCTCGAGCAAAAAGAGCGGATCAGAAACAGTGTTTTGGAA 1520

Db 601 GACTTCAGTCACCCCTCATTACTCTGGCTGGGAGAGAGCCATGAGGACAGTTTTTGGTGT 660

QY 1521 GAACCATATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATC 1580

Db 661 GAGCCAGACTTGACCAAGGAGGCGGACAGTATTCCTGACCTTGACCTTTCAGGAGGCC 720

QY 1581 GTCCACAAGAGCGTGTGCTAATTCCGCTGGGAGCTGTTGATGATGGAGAACATTCGCAG 1640

Db 721 ACGGCAAGAACGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780

QY 1641 AATGAGAAAATCAACAGGTGGAACTACATAGAGGGAACCAAAATATTGTCCTTTTTC 1700

Db 781 AATGAAAAAGCTCAACAGGTATAAATACTACATAGAGGGAACCAAGATGCTGGCCGCTACCTG 840

QY 1701 TTAGAGATGGCCAGCTCCATTAATCAAAAGAACCTTCT 1739

Db 841 TATGAGGTCTCCAGCTGAAGGACTAGGCCAAGCCCTCT 879

RESULT 68

ABL18866/C

ID ABL18866 standard; DNA; 3538 BP.

XX ABL18866;

XX 26-MAR-2002 (first entry)

XX Drosophila melanogaster genomic polynucleotide SEQ ID NO 8071.

XX Drosophila; developmental biology; cell signalling; insecticide;

KW pharmaceutical; gene; ds.

KW Drosophila melanogaster.

OS WO200171042-A2.

XX 27-SEP-2001.

XX 23-MAR-2001; 2001WO-US009231.

XX 23-MAR-2000; 2000US-0191637P.

PR 11-JUL-2000; 2000US-00614150.

XX (PEKE) PE CORP NY.

PA Venter JC, Adams M, Li PWD, Myers EW;

PI WPI; 2001-656860/75.

DR New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell interactions.

XX Claim 1; SEQ ID NO 8071; 21pp + Sequence Listing; English.

XX The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 3538 BP; 1035 A; 723 C; 651 G; 1129 T; 0 U; 0 Other;

CC Query Match 10.0%; Score 224.2; DB 4; Length 3538; Best Local Similarity 58.0%; Pred. No. 6.6e-39; Matches 397; Conservative 0; Mismatches 288; Indels 0; Gaps 0;

QY 412 GACAAGAGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCTGGGGCCCC 471

Db 2456 GAGGCGAGATCGGTCTGATGGTGAATGGACCGCGGATCGGCTGAGGTCTCTGGGCGCG 2397

QY 472 GTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATAC 531

Db 2396 AGACAGAGCTGGCAGATGTGGTTCAGCAGACTTTGCCGAACGGCCAGATTATACCTCTAC 2337

QY 532 CTCCCCTCATCTGGCCGAACTGGGGAGCGATCCACGAAAGGCACCGTGTGCTTCTACG 591

Db 2336 CAAAGGTTCTGCTGGGAACTTTGGGCAAGACCCCTCTAAGAAGACCGTGTGCTCTATG 2277

QY 592 GCCACTTGGACGTGACGCTGCTGACCGGGGCGATGGGTGGCTCAGGACCCCTATGTGC 651

Db 2276 GTCATTTGGATGTGACGCCGCCCTGAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 2217

QY 652 TGACGGAGGTAGACGGGAACTTTATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCT 711

Db 2216 TTACAGAGGTGGATGGAAAACTGTTTGGACCGCGGCGCATCCGACGACAAGGACCTGTT 2157

QY 712 TGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCTGGAGCAAGATCTTCTGTGAATA 771

Db 2156 TGTGCTGGATCCACGCTATCGAAGCTTATCAGAAGCTCAACATTTGCACCTGCTGTGAATG 2097

QY 772 TCAATTCATCTTACGGGATGGAAGAGGCTGCTGTGCCCCTGGAGGAACTTGTGG 831

Db 2096 TTAAATTCGTATTTAGGGAATGGAGGAAGCGGACGGAAGGCCTCGATGACTTGTAT 2037

QY 832 AAAAAGAAAAGGACCGAATCTTCTGTGTGGACTACATTTGTAATTTTCAGATAAACCTGT 891

Db 2036 TGGAACTGTAAGATAATTTCTTAGCGGATGTTGATTTTGTTCATATCCGATAACTACT 1977

QY 892 GGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAACACAGTACTTTCATG 1011

Db 1976 GGCCTTGGAAAAAAGCGCCCTGCCTCACATATGGGCTTCGCGGTTTGGCATACTTTCAAG 1917

QY 952 TGGAGGTGAAATGCAGAGACCAAGATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATG 1011

Db 1916 TGGAGGTGAAATGCTCCAGCAAAAGACTTGCATAGTGGAGTTTTTGGGGGTACAGTTCACG 1857

QY 1012 AACCAATGGCTGATCTGTTGCTCTTCGCTAGCCTGGTAGACTCGTCTGGTCATATCC 1071

Db 1856 AAGCAATGCCGATCTGTGTCAATTTGCTGAGCATCTTGTGCGATAAAGATACAAATATCC 1797

QY 1072 TGGTCCCTGGAATCTATGATGAAGT 1096

Db 1796 TAGTCCCTGGTGTGATCGCGACGT 1772

RESULT 69

ABL18870/c

ID ABL18870 standard; DNA; 4027 BP.

XX

AC ABL18870;

XX

DT 26-MAR-2002 (first entry)

XX

DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 8083.

XX

KW Drosophila; developmental biology; cell signalling; insecticide;

KW pharmaceutical; gene; ds.

XX

OS Drosophila melanogaster.

XX

PN WO200171042-A2.

XX

PD 27-SEP-2001.

XX

PF 23-MAR-2001; 2001WO-US009231.

XX

PR 23-MAR-2000; 2000US-0191637P.

PR 11-JUL-2000; 2000US-00614150.

XX

PA (PEKE) PE CORP NY.

XX

PI Venter JC, Adams M, Li PWD, Myers EW;

XX

DR WPI; 2001-656860/75.

XX

PT New isolated nucleic acid detection reagent for detecting 1000 or more

PT genes from Drosophila and for elucidating cell signaling and cell-cell

PT interactions.

XX

PS Claim 1; SEQ ID NO 8083; 21pp + Sequence Listing; English.

XX

CC The invention relates to an isolated nucleic acid detection reagent

CC capable of detecting 1000 or more genes from Drosophila. The invention is

CC useful in developmental biology and in elucidating cell signalling and

CC cell-cell interactions in higher eukaryotes for the development of

CC insecticides, therapeutics and pharmaceutical drugs. The invention

CC discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA

CC sequences (ABL01840-ABL16175) and the encoded proteins (ABB57737-

CC ABB72072). The sequence data for this patent did not form part of the

CC printed specification, but was obtained in electronic format directly

CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX

SQ Sequence 4027 BP; 1205 A; 797 C; 729 G; 1296 T; 0 U; 0 Other;

Query Match 10.0%; Score 224.2; DB 4; Length 4027;

Best Local Similarity 58.0%; Pred. No. 6.8e-39;

Matches 397; Conservative 0; Mismatches 288; Indels 0; Gaps 0;

QY 412 GACAAGAGCTCTTCAGAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCTGGGGCCCC 471

Db 2456 GAGGCGAGATCGGTCTGATGGTGAATGGACCGCGGATCGGCTGAGGTCTCTGGGCGCG 2397

QY 472 GTGTGGCCTCGGTGGACATGGGTCTCAGCAGCTGCCCGATGGTCAGAGTCTTCCAATAC 531

Db 2396 AGACAGAGCTGCGAGATGTGGTTCAGCAGACTTTGCCGAACCGCCAGATTATACCTCTAC 2337

QY 532 CTCCCCTCATCTCTGGCCGAACTTTATGGAGGCGATCCACGAAAGGCACCGTGTGCTTCTACG 591

Db 2336 CAAAGGTTCTGCTGGGAACTTTGGGCAAGACCCCTCTAAGAAGACCGTGTGCTCTATG 2277

QY 592 GCCACTTGGAGCTGCAGCCTGTCTGACCGGGCGGATGGGTGGCTCAGGACCCCTATGTGC 651

Db 2276 GTCATTTGGATGTGACGCCGCCCTGAAGGAAGATGGATGGAACACCAATCCCTTTGAGC 2217

QY 652 TGACGGAGGTAGACGGGAACTTTATGGACGAGGAGCGACCGACAACAAAGGCCCTGTCT 711

Db 2216 TTACAGAGGTGGATGGAAAACTGTTTGGACCGCGGCGCATCCGACGACAAGGACCTGTT 2157

QY 712 TGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCTGGAGCAAGATCTTCTGTGAATA 771

Db 2156 TGTGCTGGATCCACGCTATCGAAGCTTATCAGAAGCTCAACATTTGCACCTGCTGTGAATG 2097

QY 772 TCAATTCATCTTAGGGGATGGAAGAGGCTGCTGTGCCCCTGGAGGAACTTGTGG 831

Db 2096 TTAAATTCGTATTTAGGGAATGGAGGAAGCGGACGGAAGGCCTCGATGACTTGTAT 2037

QY 832 AAAAAGAAAAGGACCGAATCTTCTGTGTGGACTACATTTGTAATTTTCAGATAAACCTGT 891

Db 2036 TGGAACTGTAAGATAATTTCTTAGCGGATGTTGATTTTGTTCATATCCGATAACTACT 1977

QY 892 GGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGAACACAGTACTTTCATG 951

Db 1976 GGCCTTGGAAAAAAGCGCCCTGCCTCACATATGGGCTTCGCGGTTTGGCATACTTTCAAG 1917

QY 952 TGGAGGTGAAATGCAGAGACCAAGATTTTCACTCAGGAACCTTTGGTGGCATCCTTCATG 1011

Db 1916 TGGAGGTGAAATGCTCCAGCAAAAGACTTGCATAGTGGAGTTTTTGGGGGTACAGTTCACG 1857

QY 1012 AACCAATGGCTGATCTGTTGCTCTTCGCTAGCCTGGTAGACTCGTCTGGTCATATCC 1071

Db 1856 AAGCAATGCCGATCTGTGTCAATTTGCTGAGCATCTTGTGCGATAAAGATACAAATATCC 1797

QY 1072 TGGTCCCTGGAATCTATGATGAAGT 1096

Db	1796				1772
RESULT 70					
AAH05416					
ID	AAH05416	standard; cDNA; 774 BP.			
XX	AAH05416;				
AC	26-JUN-2001	(first entry)			
XX	Human cDNA clone (5'-primer)	SEQ ID NO:2251.			
DE	Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.				
XX	Homo sapiens.				
OS	EP1074617-A2.				
XX	07-FEB-2001.				
PD	28-JUL-2000;	2000EP-00116126.			
XX	29-JUL-1999;	99JP-00248036.			
PR	27-AUG-1999;	99JP-00300253.			
PR	11-JAN-2000;	2000JP-00118776.			
PR	02-MAY-2000;	2000JP-00183767.			
PR	09-JUN-2000;	2000JP-00241899.			
XX	(HELI-) HELIX RES INST.				
PA	Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;				
PI	Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;				
XX	WPI; 2001-318749/34.				
DR	Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.				
XX	Claim 1; SEQ ID NO 2251; 2537pp + Sequence Listing; English.				
CC	The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprises: (a) an oligo-dT primer and an oligonucleotide complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence/3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AAH03166 to AAH13628 and AAH13633 to AAH18742 represent human cDNA sequences; AAB92446 to AAB95893 represent human amino acid sequences; and AAH13629 to AAH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention				
SQ	Sequence 774 BP; 180 A; 196 C; 228 G; 167 T; 0 U; 3 Other;				
Query Match 9.9%; Score 222; DB 4; Length 774;					
Best Local Similarity 56.7%; Pred. No. 1.2e-38;					
Matches 408; Conservative 0; Mismatches 311; Indels 0; Gaps 0;					

QY	776	ATTTCATCATTTGAGGGGATGGAAGGCTGGCTCTGTTGCCCTGGAGGAACTTGTGGA	835		
Db	1	ATTCTGCTCGAAGGCATGGAGAGTCAGGCTCTGAGGGCCTAGACGAGCTGATTTTGC	60		
QY	836	AGAAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTAATTTGAGATAACCTGTGGAT	895		
Db	61	CCGGAAGACACATTTCTTAAGATGTGGACTATGTCTGCATTTCTGACAAATTACTGGCT	120		
QY	896	CAGCCAAAGGAAGCCAGCAATCACTTATGGAAACCCGGGGGAACAGCTACTTTCATGGTGA	955		
Db	121	GGGAAAGAAAGCCCTGTCATCACCTACGGCCTCAGGGGCAATTGTCTACTTTTTTCATCGA	180		
QY	956	GGTGAATGCAGAGACCAGGATTTTCACTCAGGAACCTTTGGTGGCATCCTTTCATGAACC	1015		
Db	181	GGTGGAGTGCAGCAACAAGACCTCCATTCTGGGTGTACGGGGCTCGGTGTCATGAGGC	240		
QY	1016	AATGGCTGATCTGGTTGCTCTTCTCGGTAGCCCTGTAGACTCGTCTGGTCATATCCTGCT	1075		
Db	241	CATGACTGATCTCATTTTGTCTGATGGGCTCTTTGGTGACAAGAGGGGGAACATCCTGAT	300		
QY	1076	CCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGAAAGAGGAAATAATACATACAAAGC	1135		
Db	301	CCCGGCATTAAAGAGCCCTGGCCGCCGTACCGGAAGAGGACACAAGCTGTACGACGA	360		
QY	1136	CATCCATCTAGACCTAGAAATACCCGGAATAGCAGCCGGTGTGAGAAATTTCTGTTCGA	1195		
Db	361	CATCGACTTTGACATAGAGGAGTTTGCCAAAGGATGTGGGGCGCAGATCCTCTGCACAG	420		
QY	1196	TACTAAGGAGGAGATTCTTAATGCACCTCTGGAGGTACCCATCTCTTTCTATTATGGGAT	1255		
Db	421	CCACAAGAAAGACATCCTCATGCACCGATGGCGGTACCCGTCTCTGTCCCTCCATGGCAT	480		
QY	1256	CGAGGGCGGCTTTGATGAGCCTGGAACTAAAAACAGTCATACCTGGCCGAGTTATAGGAAA	1315		
Db	481	CGAAGGCGCCTTCTCTGGGTCTGGGGCCCAAGACCGTGATTCACGGAAGGTGTCGGCAA	540		
QY	1316	ATTTTCAATCCGTCTAGTCCCTCACATGAATGTCTGCGGTGGAACACAGGTGACACG	1375		
Db	541	GTCTCCATCAGGCTCGTGCCGAACATGACTCCTGAAGTCGTGGCGAGCAGGTCAACAAG	600		
QY	1376	ACATCTTGAAGATGTGTTCTCCAAAAGAAATAGTTCACAACAGATGTTGTTTCCATGAC	1435		
Db	601	CTACCTAACTAAGAAGTTTGCTGAACCTACGCAGCCCCCAATGAGTTCAAGGTGTACATGG	660		
QY	1436	TCTAGGACTACACCCGTCGATTGCAAATATTGATGACACCCAGTATCTCGCAGCAAAA	1494		
Db	661	CCACGGTGGGAAGCCCTGGGTCTNCGACTTCAGTCACCCCTCATTACCTGGCTGGGAGAA	719		
RESULT 71					
AAD33887					
ID	AAD33887	standard; DNA; 594 BP.			
XX	AAD33887;				
AC	16-JUL-2002	(first entry)			
XX	Human carboxypeptidase-like enzyme DNA #4.				
DT	Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;				
XX	chronic obstructive pulmonary disease; cytostatic; antiasthmatic;				
DE	antiallergic; enzyme; ds.				
XX	Homo sapiens.				
OS	WO200220805-A2.				
XX	14-MAR-2002.				
PD	05-SEP-2001;	2001WO-EP010203.			
XX	11-SEP-2000;	2000US-0231546P.			
PR					
XX					

Db 354 GCAGCCCAATGAGTTCAAGGTGTACATGGGCCACGGTGGGAAGCCCTGGGTCTCCGACT 413
Qy 1465 TTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGATCAGAACAGTGTTTGGAAACAGAAC 1524
Db 414 TCAGTCAACCTCATTAACCTGGCTGGGAGAGAGCCATGAAGACAGTTTTGGTGTGAGC 473
Qy 1525 CAGATATGATCCGGGATGGATCCACCATTCCAAATGCCCCAAATGTTCCAGGAGATCGTCC 1584
Db 474 CAGACTTGACAGGAAGCGGCAGTATTCCTGACCTTTCAGGAGGCCACGG 533
Qy 1585 ACAAGAGCGTGGTGTAAATCCGCTGGGAGCTGTTGATGATGGAGAAACATTCGCAGAAATG 1644
Db 534 GCAAGAACGTATGCTGCTGCTGTGGGTGAGCGGATGACGGAGCCCACTCCAGAAATG 593
Qy 1645 AGAAATCAACAGGTGGAACACTACATAGAGGGAACCAATATTATGCTGCCTTTTCTTAG 1704
Db 594 AAAAGCTCAACAGGTATAACTACATAGAGGGAACCAAGATGCCGCGCGGTACCTGTATG 653
Qy 1705 AGATGGCC 1712
Db 654 AGGTCTCC 661

RESULT 73
AAD33888
ID AAD33888 standard; DNA; 567 BP.
AC AAD33888;
XX
DT 16-JUL-2002 (first entry)
DE Human carboxypeptidase-like enzyme DNA #5.
XX
KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.
XX
OS Homo sapiens.
XX WO200220805-A2.
PN
PD 14-MAR-2002.
XX
PF 05-SEP-2001; 2001WO-EP010203.
PR 11-SEP-2000; 2000US-0231546P.
XX
PA (FARB) BAYER AG.
XX
PI Liou J;
XX
DR WPI; 2002-315660/35.
XX
PT New purified human carboxypeptidase-like enzyme, useful for identifying
PT modulators of enzyme activity for treating cancer, asthma, allergy or
PT chronic obstructive pulmonary disease.
XX
PS Disclosure; Fig 5; 127pp; English.
XX
CC The invention relates to a purified human carboxypeptidase-like enzyme.
CC The enzyme is useful for screening for agents which decrease the activity
CC of an carboxypeptidase-like enzyme. The invention is also useful for
CC treating a carboxypeptidase-like enzyme dysfunction related diseases
CC condition such as chronic obstructive pulmonary disease, cancer, asthma
CC or allergy. The invention is also useful for modulating carboxypeptidase-
CC like enzyme activity in a disease condition. The invention is useful in
CC diagnostic assays for detecting diseases and abnormalities or
CC susceptibility to diseases and abnormalities related to presence of
CC mutations in the nucleic acid sequences which encode the enzyme. The
CC present sequence is human DNA encoding carboxypeptidase-like enzyme
XX
SQ Sequence 567 BP; 130 A; 140 C; 179 G; 117 T; 0 U; 1 Other;

Query Match 8.8%; Score 196.6; DB 6; Length 567;
Best Local Similarity 60.2%; Pred. No. 4.2e-33;
Matches 342; Conservative 0; Mismatches 225; Indels 1; Gaps 1;
Qy 581 GTGCTTCTACGGCCACTTGAGCGTGCAGCCTGCTGACCCGGGGCGATGGTGGCTCACGGA 640
Db 1 GTGCATTTACGGGCACCTGGATGTGCAGCCTGCAGCCTTGAGGACGGCTGGACAGCGA 60
Qy 641 CCCATATGTCTGACGGAGGTAGACGGGAAACCTTTATGACGAGGAGCGACCGACAAACA 700
Db 61 GCCCTTCACCTGGTGGAGCGAGACGGCAAGCTGCTGAGGAGAGGTTTCGACTGATGATA 120
Qy 701 AGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCT 760
Db 121 GGGCCCGTGGCCGCTGGATAAACGCCCTGGAAGCGTATCAGAAACACAGGCCAGGAGAT 180
Qy 761 TCCTGTGAATATCAAAATTCATCATTTGAGGGGATGGAAGAGGCTGGCTCTGTGCCCTGGA 820
Db 181 TCCTGTCAACGTCGGATTTGCTCCTCGAAGGCATGGAGGATCAGGCTCTGAGGGCCCTAGA 240
Qy 821 GGAACCTTGTGGA AAAAAGAAAGGACCGATTCTTCTCTGGTGTGGACTACATTTGTAATTC 880
Db 241 CGAGCTGATTTTGGCCCGGAAAGACACATTTCTTAAGGATGTGGACTACGCTCTGCATTC 300
Qy 881 AGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGGAACAG 940
Db 301 TGACAATTACTGGCTGGGAAGAAAGAGCCCTGTCATCACCTACCGG-CCTCAGGGGCAATTG 359
Qy 941 CTACTTTCATGAGGAGTGAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTC 1060
Db 360 CTACTTTTTCATCGAGGTGGAGTGCAGCAACAAAGACCTCCATTTCTGGGTGTACGGNGG 419
Qy 1001 CATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTC 1060
Db 420 CTCGGTGCATGAGGCCATGACTGATCTCATTTTGTGTGATGGCTCTTTGGTGGACAAGAA 479
Qy 1061 TGGTCATATCCTGGTCCCTCGAATCTATGATGAAGTGGTTCTCTTACAGAAGAGGAAAT 1120
Db 480 GGGGAACATCCTGATCCCCCGGCATTACGAGGCCCGTGGCCCGCTCACGGAAGAGGAGCA 539
Qy 1121 AAATACATACAAAGCCATCCATCTAGAC 1148
Db 540 CAAGCTGTACGACGACATCGACTTTTGAC 567

RESULT 74
AAD33894
ID AAD33894 standard; DNA; 699 BP.
XX
AC AAD33894;
XX
DT 16-JUL-2002 (first entry)
XX
DE Human carboxypeptidase-like enzyme DNA #11.
XX
KW Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.
XX
OS Homo sapiens.
XX
PN WO200220805-A2.
XX
PD 14-MAR-2002.
XX
PF 05-SEP-2001; 2001WO-EP010203.
PR 11-SEP-2000; 2000US-0231546P.
XX
PA (FARB) BAYER AG.
XX
PI Liou J;

XX PD 16-OCT-2003.
XX PF 03-APR-2002; 2002US-00029386.
XX PR 03-APR-2002; 2002US-00029386.
XX (PENN/) PENN S G.
PA (RANK/) RANK D R.
PA (HANZ/) HANZEL D K.
XX Penn SG, Rank DR, Hanzel DK;
XX WPI; 2004-119264/12.
XX New human genome-derived single exon nucleic acid probes useful for human
PT gene expression analysis, for identifying or characterizing alternative
PT splicing events, for assessing genomic alterations or as tools for
PT surveying tissues.
XX
PS Claim 1; SEQ ID NO 21200; 80pp; English.
XX
CC The invention relates to a nucleic acid probe for measuring human gene
CC expression, comprising any of the 27,400 fully defined nucleotide
CC sequences in the specification, or their complements or fragments, and
CC encoding at least 8 amino acids of any of the 6888 amino acid sequences
CC fully defined in the specification. The probe is a single exon probe that
CC hybridises under high stringency conditions to a nucleic acid molecule
CC expressed in human cells or tissues. Also included are a spatially-
CC addressable set of single exon nucleic acid probes for measuring human
CC gene expression (comprising a plurality of single exon nucleic acid
CC probes cited above, where each of the plurality of probes is separately
CC and addressably isolatable or amplifiable from the plurality), a single
CC exon microarray for measuring human gene expression, a method of
CC measuring human gene expression, a vector comprising the single exon
CC probe cited above, an ORF-encoded peptide comprising at least 8
CC contiguous amino acids of any of the above-mentioned amino acid
CC sequences (optionally with conservative amino acid substitutions), an
CC isolated antibody that binds specifically to a peptide cited above,
CC methods of selling and/or licensing single exon probes or microarrays to
CC a customer desiring to measure gene expression, a method of providing
CC human gene expression data by subscription, and a computer-readable
CC storage medium which contains a database having a plurality of records
CC (each record including data on the expression of a single exon probe
CC cited above. The probe, methods and apparatus are useful in gene
CC expression analysis. The probes may be used as tools for surveying
CC tissues to detect the presence of expressed messages that contain their
CC specific exon, or in constructing genome-derived single exon microarrays.
CC In addition, the probes are used in identifying and characterising
CC alternative splicing events, in detecting and characterising gross
CC alterations in the genomic locus that includes their exon, in assessing
CC smaller genomic alterations, in priming the synthesis of nucleic acids,
CC or in expressing the ORF-encoded peptide. The present sequence is a human
CC single exon probe of the invention. Note: The present sequence is a human
CC patent did not form part of the printed specification, but was obtained
CC in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?DocID=20030194704
XX
SQ Sequence 156 BP; 25 A; 44 C; 57 G; 30 T; 0 U; 0 Other;

Query Match 6.8%; Score 152.4; DB 12; Length 156;
Best Local Similarity 99.4%; Pred. No. 1.4e-23;
Matches 153; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 354 ACGCTGAAGGAGTGGGTGGCCATCGAGAGCGGACTGTGTCCAGCCTGTGCTCGCTTCAGA 413
DB 1 ACGCTGAAGGAGTGGGTGGCCATCGAGAGCGGACTGTGTCCAGCCTGTGCTCGCTTCAGA 60

QY 414 CAAGAGCTCTTCAGATGATGGCCGTGGCTGGCGACACGCTGCAGCGCTGGGGCCCCGT 473
DB 61 CAAGAGCTCTTCAGATGATGGCCGTGGCTGGCGACACGCTGCAGCGCTGGGGCCCCGT 120

QY 474 GTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGC 507

Db 121 GTGGCCTCGGTGGACATGGGTCTCTCAGCAGGTGC 154

RESULT 84
AAS65840
ID AAS65840 standard; cDNA; 497 BP.
XX AAS65840;
XX
DT 13-FEB-2002 (first entry)
XX
DE DNA encoding novel human diagnostic protein #1644.
XX
KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX
OS Homo sapiens.
XX
PN WO200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US008631.
XX
PR 31-MAR-2000; 2000US-00540217.
PR 23-AUG-2000; 2000US-00649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
DR P-PSDB; ABG01653.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity.
XX
PS Claim 1; SEQ ID NO 1644; 103pp; English.
XX
CC The invention relates to isolated polynucleotide (I) and polypeptide (II)
CC sequences. (I) is useful as hybridisation probes, polymerase chain
CC reaction (PCR) primers, oligomers, and for chromosome and gene mapping,
CC and in recombinant production of (II). The polynucleotides are also used
CC in diagnostics as expressed sequence tags for identifying expressed
CC genes. (I) is useful in gene therapy techniques to restore normal
CC activity of (II) or to treat disease states involving (II). (II) is
CC useful for generating antibodies against it, detecting or quantitating a
CC polypeptide in tissue, as molecular weight markers and as a food
CC supplement. (II) and its binding partners are useful in medical imaging
CC of sites expressing (II). (I) and (II) are useful for treating disorders
CC involving aberrant protein expression or biological activities. The
CC polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic
CC coding sequences of the invention. Note: The sequence data for this
CC patent did not appear in the printed specification, but was obtained in
CC electronic format directly from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 497 BP; 90 A; 144 C; 148 G; 115 T; 0 U; 0 Other;

Query Match 6.8%; Score 152.2; DB 5; Length 497;
Best Local Similarity 71.5%; Pred. No. 2.2e-23;
Matches 291; Conservative 0; Mismatches 43; Indels 73; Gaps 4;

QY 224 GGCTGCGTCCCTGCTGGCTGTGCTGCTGCTGCTGGAGCGCGGATGTTCTCTCACC 283
DB 162 GGCTGCGTCCCTGCTGGCTGTGCTGCTGCTGCTGCTGGAGCGCGGATGTTCTCTCACC 221

QY 284 CTCCTCCGCCCCGCGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGA 343
Db |||||
QY 222 CTCCTCCGCCCCGCGCTGTTAGAGAAAGTCTTCCAGTACATTGACCTCCATCAGGATGA 281
Db |||||
QY 344 ATTTGTGCAGACGTGAAGGAGTGGGTGGCCATCGAGAGCGACTCTGTCTCAGCCTGTGCC 403
Db |||||
QY 282 ATTTGTGCAGACTCCCAA-----TGTCTATGCTTTTGA 314
Db |||||
QY 404 TCGCTTCAGACAGAGCTCTTTCAGAAATGATGGCCGTGGTGGGA-CACGCTGCAGCGCC 462
Db |||||
QY 315 TTTTCTGGAAGAACACACAGCATTTTGTGAAAATGTGATTCTCTGATCATTTCTGCAGCTGC 374
Db |||||
QY 463 TGGGGCCCCGTGTGGCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCCCGATGGTCAGAGTC 522
Db |||||
QY 375 -----CCGGATGGTCAGAGTC 390
Db |||||
QY 523 TTCC-AATACCTCCGTCATCCTGGCCGAAGTGGGGAGCGATCCACGAAAGGCACCGTG 581
Db |||||
QY 391 TTCCAAATACCTCCCATCATCTCTGGCCGAATTGGGGAGCGATCCACGAAAGGCACCGTG 450
Db |||||
QY 582 TGCTTCTACGGCCACTTGGACGTGCAGCTGCTGACCGGGGCGATGG 628
Db |||||
QY 451 TGCTTCTACGGCCACTTGGACGTGCAGCTGCTGACCGGGGCGATGG 497
Db |||||

RESULT 85

AAD33892
ID AAD33892 standard; DNA; 558 BP.
XX
AC AAD33892;

DT 16-JUL-2002 (first entry)
XX
DE Human carboxypeptidase-like enzyme DNA #9.

XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.

OS Homo sapiens.

XX WO200220805-A2.

PN 14-MAR-2002.

PD 05-SEP-2001; 2001WO-EP010203.

XX 11-SEP-2000; 2000US-0231546P.

PA (FARB) BAYER AG.

XX Liou J;

DR WPI; 2002-315660/35.

XX New purified human carboxypeptidase-like enzyme, useful for identifying
PT modulators of enzyme activity for treating cancer, asthma, allergy or
PT chronic obstructive pulmonary disease.

PS Disclosure; Fig 9; 127pp; English.

XX The invention relates to a purified human carboxypeptidase-like enzyme.
CC The enzyme is useful for screening for agents which decrease the activity
CC of an carboxypeptidase-like enzyme. The invention is also useful for
CC treating a carboxypeptidase-like enzyme dysfunction related diseases
CC condition such as chronic obstructive pulmonary disease, cancer, asthma
CC or allergy. The invention is also useful for modulating carboxypeptidase-
CC like enzyme activity in a disease condition. The invention is useful in
CC diagnostic assays for detecting diseases and abnormalities or
CC susceptibility to diseases and abnormalities related to presence of
CC mutations in the nucleic acid sequences which encode the enzyme. The
CC present sequence is human DNA encoding carboxypeptidase-like enzyme

XX SQ Sequence 558 BP; 133 A; 135 C; 172 G; 114 T; 0 U; 4 Other;
Query Match 6.7%; Score 150.2; DB 6; Length 558;
Best Local Similarity 58.5%; Pred. No. 6.3e-23;
Matches 279; Conservative 0; Mismatches 192; Indels 6; Gaps 1;
QY 313 TCITCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGGTGG 372
Db |||||
QY 86 TGTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAGAAACTCGCAAATGGGTGG 145
Db |||||
QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGATGA 432
Db |||||
QY 146 CTATCCAGAGTGTCTGTGCTGGCCGGAG-----AAGAGAGCGGAAATCAGGAGGATGA 199
Db |||||
QY 433 TGGCGTGGCTGCGGACACCGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGG 492
Db |||||
QY 200 TGGAAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGATATCG 259
Db |||||
QY 493 GTCCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAAATACCTCCCGTCATCCTGGCCGAAC 552
Db |||||
QY 260 GAAAACAAAAGCTCCCTGATGGCTCGAGATCCCGCTCCCTCTATTCTGCTCGGCAGGC 319
Db |||||
QY 553 TGGGGAGCGATCCACGAAAGGCACCGTGTGCTTCTACGGCCCACTTGGACGTGCAGCCTG 612
Db |||||
QY 320 TGGGCTCCGACCCACAGAAAGAACCGTGTGCAATTACGGGCACCTGGATGTGCAGCCTG 379
Db |||||
QY 613 CTGACCGGGCGATGGGTGCTCAGGACCCCTATGTGCTGACGGAGGTAGACGGGAAAC 672
Db |||||
QY 380 CAGCCCTGGAGGACGGCTGGACAGCGAGCCCTTCACTTGGAGCGAGACGCGCAAGC 439
Db |||||
QY 673 TTTATGGACGAGGAGCGACCGACAAACAAAGGCCCTGTCTTGGCTTGGATCAATGTGTGA 732
Db |||||
QY 440 TGTATGGGAGAGGTTCTGACTGATGATAAGGGCCCNCTGGCNCGCTGGATAAACGCCCTGN 499
Db |||||
QY 733 GCGCCTTCAGAGCCCTGGAGCAAGATCTTCTCTGTAATATCAAATTCATCATTTGAGG 789
Db |||||
QY 500 AAGCGTATCAGAAAACAGGCCANGAGATTCTCTGTCAACGTCCTCGATTCTGCCTCGAAG 556
Db |||||

RESULT 86

AAD33893
ID AAD33893 standard; DNA; 665 BP.
XX

AC AAD33893;

XX 16-JUL-2002 (first entry)

DT Human carboxypeptidase-like enzyme DNA #10.

DE Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.

XX Homo sapiens.

OS WO200220805-A2.

XX 14-MAR-2002.

PD 05-SEP-2001; 2001WO-EP010203.

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DE			
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KW	treatment; tumour; cytostatic; medicament; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	DE19813839-A1.		
XX			
PD	23-SEP-1999.		
XX			
PF	20-MAR-1998; 98DE-01013839.		
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PR	20-MAR-1998; 98DE-01013839.		
XX			
PA	(META-) METAGEN GES GENOMFORSCHUNG MBH.		
XX			
PI	Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosentahl A;		
XX			
DR	WPI; 1999-528981/45.		
DR	P-PSDB; AAY48560.		
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CC	sequence tags described in the method of the invention		
XX			
SQ	Sequence 886 BP; 227 A; 234 C; 234 G; 191 T; 0 U; 0 Other;		
Query Match 5.8%; Score 129.6; DB 2; Length 886;			
Best Local Similarity 58.6%; Pred. No. 2.4e-18;			
Matches 225; Conservative 0; Mismatches 159; Indels 0; Gaps 0;			
QY	1356 GTGGAAAAACAGGTGACACGACATCTTGAAGATGTGTTCTCCAAAAGAAATAGTTCCAAC	1415	
Db	169 GTCGGCAGCAGGTACAAAGCTACCTAACTAAGAAGTTTGCTGAAGTACGCAGCCCCAAT	228	
QY	1416 AAGATGGTGTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACC	1475	
Db	229 GAGTTCAAGGTGTACATGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCT	288	
QY	1476 CAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTGTTGGAACAGAACCATATGATC	1535	
Db	289 CATTAACCTGGCTGGGAGAAGAGCCATGAAGACAGTGTGTTGTTGAGCCAGACTTGACC	348	
QY	1536 CGGGATGGATCCACCATTCCTCAATTGCCAAATGTTCCAGGAGATCGTCCACAAGAGCGTG	1595	
Db	349 AGGGAAGCGGCAGTATTCCCGTGACCTTGACCTTCAGGAGGCCACGGGCAAGAACGTC	408	
QY	1596 GTGCTAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCGCAGAAATGAGAAAATCAAC	1655	
Db	409 ATGCTGCTGCCTGTGGGGTCAGCGGATGACGGAGCCCACTCCAGAAATGAAAGCTCAAC	468	
QY	1656 AGGTGGAACACATAGAGGGGAACCAAATATTGCTGCCTTTTCTTAGAGATGGCCCCAG	1715	
Db	469 AGGTATAACTACATAGAGGGGAACCAAGATGCTGGCCGCGTACCTGTATGAGGTCTCCAG	528	
QY	1716 CTCCATTAATCACAAAGAACCTTCT	1739	
Db	529 CTGAAGGACTAGGCCAAGCCCTCT	552	

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XX			
PA	(META-) METAGEN GES GENOMFORSCHUNG MBH.		
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PI	Specht T, Hinzmann B, Schmitt A, Pilarsky C, Dahl E, Rosentahl A;		
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DR	WPI; 1999-528981/45.		
DR	P-PSDB; AAY48560.		
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QY	1416 AAGATGGTGTTCATGACTCTAGGACTACACCCGTGGATTGCAAAATATTGATGACACC	1475	
Db	229 GAGTTCAAGGTGTACATGGCCACGGTGGGAAGCCCTGGGTCTCCGACTTCAGTCACCCCT	288	
QY	1476 CAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTGTTGGAACAGAACCATATGATC	1535	
Db	289 CATTAACCTGGCTGGGAGAAGAGCCATGAAGACAGTGTGTTGTTGAGCCAGACTTGACC	348	
QY	1536 CGGGATGGATCCACCATTCCTCAATTGCCAAATGTTCCAGGAGATCGTCCACAAGAGCGTG	1595	
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QY	1596 GTGCTAATTCGCTGGGAGCTGTTGATGATGGAGAACATTCGCAGAAATGAGAAAATCAAC	1655	
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QY	1476 CAGTATCTCGCAGCAAAAAGAGCGGATCAGAACAGTGTGTTGGAACAGAACCATATGATC	1535	
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QY	1656 AGGTGGAACACATAGAGGGGAACCAAATATTGCTGCCTTTTCTTAGAGATGGCCCCAG	1715	
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QY	1356 GTGGAAAAACAGGTGACACGACATCTTGAAGAT		

Db 243 ATGCTGCTGCCTGTGGGTCAGCGGATGACGGAGCCCACTCCAGAAATGAAGAAGCTCAAC 302

QY 1656 AGGTGGAACACTACATAGAGGGAACCAAATTATTGTGCGCTTTTCTTAGAGATGGCCCGAG 1715

Db 303 AGGTATAACTACATAGAGGGAACCAAAGATGCTGGCGCGGTACCTGTATGAGGTCTCCCGAG 362

QY 1716 CT 1717

Db 363 CT 364

RESULT 90

AAD33896/c

ID AAD33896 standard; DNA; 464 BP.

XX AC AAD33896;

XX 16-JUL-2002 (first entry)

DE Human carboxypeptidase-like enzyme DNA #13.

XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;

KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;

KW antiallergic; enzyme; ds.

XX Homo sapiens.

OS WO200220805-A2.

PN 14-MAR-2002.

PD 05-SEP-2001; 2001WO-EP010203.

PF 11-SEP-2000; 2000US-02311546P.

XX (FARB) BAYER AG.

PA Liou J;

XX WPI; 2002-315660/35.

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XX Disclosure; Fig 13; 127pp; English.

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XX SQ Sequence 464 BP; 93 A; 133 C; 114 G; 124 T; 0 U; 0 Other;

Query Match 5.7%; Score 128.2; DB 6; Length 464;

Best local Similarity 57.5%; Pred. No. 4e-18;

Matches 249; Conservative 0; Mismatches 183; Indels 1; Gaps 1;

QY 699 AAAGGCCCTGTCTTGGCTTGGATCAATGCTGTAGCGCCTTTCAGAGCCCTGGAGCAAGAT 758

Db 464 AAGGGCCCGGTGCCCGCTGGATAAACGCCCGGAAGCGTATCAGAAAACAGGCCAGGAG 405

QY 759 CTTCTGTGAATAT-CAAATTTCATATTGAGGGGATGAAGAGGCTGGCTCTGTGCCCT 817

Db 404 ATTCCTGTCAACGTCGCCGATTCTGCCTCGAAGGCATGGAGGATCAGGCTCTGAGGGCCT 345

QY 818 GGAGGAACCTTGTGGAAAAAGAAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTAAT 877

Db 344 AGACGAGCTGATTTTGTCCCGGAAAGACACATTCTTTAAGGATGTGGACTACGTCTGCAT 285

QY 878 TTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGGGAA 937

Db 284 TTCTGACAATTACTGGCTGGGAAAGAAAGACCCCTGCATCACCTACGGCCTCAGGGGCAT 225

QY 938 CAGCTACTTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTTCACCTCAGGAACCTTTGG 997

Db 224 TTGCTACTTTTTCATCGAGGTGGAGTGCAGCAACAAGACCTCCATTCTGGGGTGTACGG 165

QY 998 TGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGGTAGACTC 1057

Db 164 GGGCTCGGTGCATGAGGCCATGACTGATCTCATTTTGTGATGGGCTCTTTGGTGACAA 105

QY 1058 GTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCTCTTACAGAAAGAGGA 1117

Db 104 GAGGGGAACATCCTGTGATCCCCGGCATTTAACGAGGCCGTGGCCCGCTCAGCGAAGAGGA 45

QY 1118 AATAAATACATAC 1130

Db 44 GCCCAAGCTGTAC 32

RESULT 91

AAX10638/c

ID AAX10638 standard; DNA; 127 BP.

XX AC AAX10638;

XX 30-MAR-1999 (first entry)

DE Human biallelic polymorphic DNA fragment WI-15225.

XX Polymorphism; biallelic; human; forensic; paternity testing; disease;

KW detection; phenotypic typing; characteristic; infection; hereditary;

KW autoimmune disease; cancer; inflammation; drug; therapy; medicament;

KW treatment; marker; ss.

XX Homo sapiens.

XX WO9820165-A2.

PN 14-MAY-1998.

PD 05-NOV-1997; 97WO-US020313.

PF 06-NOV-1996; 96US-0030455P.

XX (WHED) WHITEHEAD INST BIOMEDICAL RES.

PI Lander ES, Wang D, Hudson T;

XX WPI; 1998-286974/25.

DR New isolated nucleic acid segments from the human genome - used for

XX determining polymorphic forms for use in e.g. forensics, paternity

PT testing or phenotypic typing for disease.

XX Claim 1; Page 67; 310pp; English.

PS AAX10269-X12937 are human DNA fragments which contain biallelic

CC polymorphic markers which have been isolated using the primers

CC represented in AAX09121-X10268. The base occupying the polymorphic site

CC is indicated by the appropriate IUPAC-IUB ambiguity code. These fragments

CC can be used in methods for determining polymorphic forms in an individual

CC for use in e.g. forensics, paternity testing or for phenotypic typing for

CC diseases such as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan

CC syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,

CC familial hypercholesterolemia, polycystic kidney disease, hereditary

CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary

CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos

CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,
CC autoimmune diseases, inflammation, cancer, diseases of the nervous
CC system, infection by pathogenic microorganisms, and characteristics such
CC as longevity, appearance (e.g. baldness, obesity), strength, speed,
CC endurance, fertility, and susceptibility or receptivity to particular
CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid
CC segments can also be used to produce medicaments for the treatment or
CC prophylaxis of such diseases

SQ Sequence 127 BP; 47 A; 16 C; 36 G; 27 T; 0 U; 1 Other;
Query Match 5.6%; Score 126.6; DB 2; Length 127;
Best Local Similarity 99.2%; Pred. No. 6e-18;
Matches 126; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 2017 TTTTAGCATATCTCCAACCTTGCAATTGATTGGCATAATCACTCCGGTTTGCTTTCTAG 2076
|||||
Db 127 TTTTAGCATATCTCCAACCTTGCAATTGATTGGCATAATCACTCCRGTTTGCTTTCTAG 68
|||||

QY 2077 GTCCTCAAGTGCTCGTGACACATAATCAATCCATCCATCGCCTTTGCTTTACCACT 2136
|||||
Db 67 GTCCTCAAGTGCTCGTGACACATAATCAATCCATCCATCGCCTTTGCTTTACCACT 8
|||||

QY 2137 CTTTCCT 2143
|||||
Db 7 CTTTCCT 1
|||||

RESULT 92
AAD33904/c
ID AAD33904 standard; DNA; 536 BP.

XX AAD33904;
XX
DT 16-JUL-2002 (first entry)
XX Human carboxypeptidase-like enzyme DNA #21.

XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.

XX Homo sapiens.

XX WO200220805-A2.

XX 14-MAR-2002.

XX 05-SEP-2001; 2001WO-EP010203.

XX 11-SEP-2000; 2000US-0231546P.

XX (FARB) BAYER AG.

XX Liou J;

XX WPI; 2002-315660/35.

XX New purified human carboxypeptidase-like enzyme, useful for identifying
PT modulators of enzyme activity for treating cancer, asthma, allergy or
PT chronic obstructive pulmonary disease.

XX Disclosure; Fig 21; 127pp; English.

XX The invention relates to a purified human carboxypeptidase-like enzyme.
CC The enzyme is useful for screening for agents which decrease the activity
CC of an carboxypeptidase-like enzyme. The invention is also useful for
CC treating a carboxypeptidase-like enzyme dysfunction related diseases
CC condition such as chronic obstructive pulmonary disease, cancer, asthma
CC or allergy. The invention is also useful for modulating carboxypeptidase-
CC like enzyme activity in a disease condition. The invention is useful in
CC diagnostic assays for detecting diseases and abnormalities or
CC susceptibility to diseases and abnormalities related to presence of

CC mutations in the nucleic acid sequences which encode the enzyme. The
CC present sequence is human DNA encoding carboxypeptidase-like enzyme
XX Sequence 536 BP; 125 A; 156 C; 133 G; 122 T; 0 U; 0 Other;

SQ Query Match 5.6%; Score 125.2; DB 6; Length 536;
Best Local Similarity 61.8%; Pred. No. 1.9e-17;
Matches 199; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 417 GAGCTCTTCAGAAATGATGGCCGTGGCTGCGGACACGCTGCAGCGCCTTGGGGGCCGTGTG 476
|||||
Db 536 GAAATCAGGAGGATGATGGAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGCTCTGTG 477
|||||

QY 477 GCCTCGGTGGACATGGGTCTCTCAGCAGCTGCCGATGGTCAGAGTCTTCCAATACCTCCC 536
|||||
Db 476 GAACTGGTGATATCGGAAAAACAAAGCTCCCTGATGGCTCGGAGATCCCGTCCCTCCT 417
|||||

QY 537 GTCATCCTGGCCGAACCTGGGGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCAC 596
|||||
Db 416 ATTCTGCTCGGAGGCTGGGCTCCGACCCACAGAGAAGACCGTGTGCAATTTACGGGCAC 357
|||||

QY 597 TTGGACGTGCAGCCTGCTGACCGGGGGCGATGGGTGGCTCACGGACCCCTATGTGCTGACG 656
|||||
Db 356 CTGGATGTGCAGCCTGCAGCCCTGGAGGACGGCTGGACAGCGCCCTTCACCCCTGGTG 297
|||||

QY 657 GAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACAAAGGCCCTGTCTTGGCT 716
|||||
Db 296 GAGCGAGACGGCAAGCTGTATGGGAGAGGTTTCGACTGATGATAAGGGCCCGTGCCCGC 237
|||||

QY 717 TGGATCAATGCTGTGAGCGCCT 738
|||||
Db 236 TGGATAAACGCCCTGGAAGCCT 215
|||||

RESULT 93

AAD33901

ID AAD33901 standard; DNA; 366 BP.

XX AAD33901;

XX 16-JUL-2002 (first entry)

XX Human carboxypeptidase-like enzyme DNA #18.

XX Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
KW chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
KW antiallergic; enzyme; ds.

XX Homo sapiens.

XX WO200220805-A2.

XX 14-MAR-2002.

XX 05-SEP-2001; 2001WO-EP010203.

XX 11-SEP-2000; 2000US-0231546P.

XX (FARB) BAYER AG.

XX Liou J;

XX WPI; 2002-315660/35.

XX New purified human carboxypeptidase-like enzyme, useful for identifying
PT modulators of enzyme activity for treating cancer, asthma, allergy or
PT chronic obstructive pulmonary disease.

XX Disclosure; Fig 18; 127pp; English.

XX The invention relates to a purified human carboxypeptidase-like enzyme.
CC The enzyme is useful for screening for agents which decrease the activity
CC of an carboxypeptidase-like enzyme. The invention is also useful for

Qy	1638	CAGAAATGAGAAATCAACA	1656	SQ	Sequence 715 BP; 133 A; 202 C; 194 G; 167 T; 0 U; 19 Other;
Db	368	CAGAAATGAAAAGCTCAACA	386		Query Match 5.3%; Score 118; DB 13; Length 715; Best Local Similarity 58.8%; Pred. No. 7.9e-16; Matches 184; Conservative 0; Mismatches 129; Indels 0; Gaps 0;
RESULT 99					
ADQ55638					
ID	ADQ55638	standard; DNA; 715 BP.		Qy	1405 ATAGTTCCAACAAGATGGTTGTTTCCATGACTCTAGGACTACACCCGTGGATTGCAATA 1464
XX				Db	27 ANAGCCCCNNCNGTNNNGTGTTCATNNNNACGGTNNNNNGCCCTGGGTGCTGACT 86
AC	ADQ55638;			Qy	1465 TTGATGACACCCAGTATCTCGCAGCAAAAAGAGCGCATCAGAACAGTGTTTGGAACAGAAC 1524
DT	21-OCT-2004	(first entry)		Db	87 TCAACCACTCATTAACATGGCTGGGAGAGAGCCTTGAAGACAGTGTTTGGCGTCGAGC 146
XX				Qy	1525 CAGATATGATCCGGGATGGATCCACCATTCCAATTGCCAAAATGTTCCAGGAGATCGTCC 1584
DE	Novel canine microarray-related DNA sequence SeqID6940.			Db	147 CCGACTTGACCCGGGAAGGTGGCAGTATTCCCTGTGACTTTGACCTTTCAGGAGGCCACGG 206
KW	canine microarray; drug screening; toxicity assay;			Qy	1585 ACAAGAGCGTGGTGCTAAATTCGGTGGGAGCTGTTGATGATGGAGAACATTCGCAGAAATG 1644
KW	environmental pollutant; cellular response; gene expression profile;			Db	207 GGAAGAACGTGCTGCTGCTGCTGCTGGGCTCAGTGATGACGGGCCACTCCCAGAACG 266
KW	toxic response; liver necrosis; fatty liver disease;			Qy	1645 AGAAAAATCAACAGGTGGAACACTACATAGAGGGAACCAAATATTGTCCTTTTCTTAG 1704
KW	protein adduct formation; hepatitis; dog; ds.			Db	267 AGAAGCTCAACAGGCTTAACACTACATAGAAGGAACCAAGATGCTGGCTGCGTACCTGTATG 326
XX				Qy	1705 AGATGGCCCCAGCT 1717
OS	Canis familiaris.			Db	327 AAGTGTCACGCT 339
XX					
PN	WO2004063324-A2.			RESULT 100	
XX	29-JUL-2004.			AAD33897	
XX	05-MAY-2003; 2003WO-US013853.			ID	AAD33897 standard; DNA; 387 BP.
PF				XX	
XX	03-MAY-2002; 2002US-0377240P.			AC	AAD33897;
XX	(GENE-) GENE LOGIC INC.			XX	
PA	(PFIZ) PFIZER PROD INC.			DT	16-JUL-2002 (first entry)
XX				XX	
PI	Diggans JC, Porter M, Wei T;			DE	Human carboxypeptidase-like enzyme DNA #14.
XX				XX	
XX	WPI; 2004-561890/54.			KW	Human; carboxypeptidase-like enzyme; therapy; cancer; asthma; allergy;
DR				KW	chronic obstructive pulmonary disease; cytostatic; antiasthmatic;
XX				KW	antiallergic; enzyme; ds.
PT	New isolated nucleic acid molecule, useful for drug screening and			XX	
PT	toxicity assays or for assessing the impact, including toxicity, of a			OS	Homo sapiens.
PT	compound, pharmaceutical agent or environmental pollutant on a cell or			XX	
PT	living organism.			XX	
XX				PN	WO200220805-A2.
PS	Claim 1; SEQ ID NO 6940; 41pp; English.			XX	
XX				PD	14-MAR-2002.
CC	This invention is related to a novel isolated canine nucleic acid			XX	
CC	sequences and the construction of canine microarrays containing a			XX	
CC	significant portion of the canine genome. The isolated canine nucleic			PF	05-SEP-2001; 2001WO-EP010203.
CC	acid sequences of the invention may be useful for drug screening and			XX	
CC	toxicity assays. The invention is therefore useful for assessing the			XX	
CC	impact, including toxicity, of a compound, pharmaceutical agent or			PR	11-SEP-2000; 2000US-0231546P.
CC	environmental pollutant on a cell or living organism. The methods are			XX	
CC	useful for detecting genes that are up- or down-regulated in canines in a			PA	(FARB) BAYER AG.
CC	disease state. The sequences are useful as diagnostic agents or markers			XX	
CC	to detect a cellular response in a sample individually or as part of a			PI	Liou J;
CC	gene expression profile. It is also useful as a target for agents that			XX	
CC	modulate gene expression or activity. The database is useful for			DR	WPI; 2002-315660/35.
CC	producing electronic Northernblots that allow the user to determine the cell			XX	
CC	type or tissue in which a given gene is expressed and to allow			XX	
CC	determination of the abundance or expression level of a given gene in a			PT	New purified human carboxypeptidase-like enzyme, useful for identifying
CC	particular tissue or cell. The methods are useful for determining the			PT	modulators of enzyme activity for treating cancer, asthma, allergy or
CC	similarity of a toxic response to one or more individual compounds. The			PT	chronic obstructive pulmonary disease.
CC	methods are useful for predicting at least one toxic response or the			XX	
CC	likelihood that a compound or test agent will induce various specific			PS	Disclosure; Fig 14; 127pp; English.
CC	pathologies such as those of the liver (liver necrosis, fatty liver			XX	
CC	disease, protein adduct formation or hepatitis), those of the kidney,			XX	
CC	heart, brain or testes, or other pathologies associated with at least one			CC	The invention relates to a purified human carboxypeptidase-like enzyme.
CC	of the toxins. The methods are also useful for predicting or elucidating			CC	The enzyme is useful for screening for agents which decrease the activity
CC	the potential cellular pathways influenced, induced or modulated by the			CC	of an carboxypeptidase-like enzyme. The invention is also useful for
CC	compound or test agent due to the similarity of the expression profile			CC	treating a carboxypeptidase-like enzyme dysfunction related diseases
CC	compared to the profile induced by a known toxin. The present sequence is			CC	condition such as chronic obstructive pulmonary disease, cancer, asthma
CC	that of a canine DNA sequence which was claimed for use during the			CC	or allergy. The invention is also useful for modulating carboxypeptidase-
CC	production of a canine microarray of the invention.			XX	

13-OCT-2003 (first entry)
Human adult heart cDNA #1560.
Human; ss; sequencing by hybridisation; SBH; expressed sequence tag; EST; genome mapping; biodiversity; genetic disorder.
Homo sapiens.
US2003073623-A1.
17-APR-2003.
30-JUL-2001; 2001US-00918995.
30-JUL-2001; 2001US-00918995.
(DRMA/) DRMANAC R T.
(LABA/) LABAT I.
(STAC/) STACHE-CRAIN B.
(DICK/) DICKSON M C.
(JONE/) JONES L W.
Drmanac RT, Labat I, Stache-Crain B, Dickson MC, Jones LW;
WPI; 2003-615964/58.
New polynucleotide sequences obtained from various cDNA libraries, useful as hybridization probes, as oligomers for PCR, for chromosome and gene mapping, in the recombinant production of protein, or in generating antisense DNA or RNA.
Claim 1; SEQ ID NO 4458; 44pp; English.
The invention relates to an isolated polynucleotide comprising any one of 38043 cDNA sequences, appearing as ACH12789-ACH50831, whose sequence was determined by the technique of SBH (sequencing by hybridisation). Also included is a purified polypeptide comprising a sequence corresponding to a reading frame of the novel polynucleotide. The nucleic acid sequences are useful in diagnostics as expressed sequence tags (EST) for identifying expressed genes or for physical mapping of the human genome, in forensics, in assessing biodiversity, or in identifying mutations responsible for genetic disorders and other traits. The nucleotide sequences are also useful as hybridisation probes, as oligomers for PCR, for chromosome and gene mapping, in the recombinant production of protein, or in generating antisense DNA or RNA. The purified polypeptide is useful for generating antibodies specific for it. The present sequence is one of the 38043 isolated cDNA/EST sequences. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from USPTO at seqdata.uspto.gov/sequence.html?DocID=20030073623
Sequence 403 BP; 93 A; 97 C; 126 G; 87 T; 0 U; 0 Other;
Query Match 4.4%; Score 98.8; DB 9; Length 403;
Best Local Similarity 59.0%; Pred. No. 1.1e-11;
Matches 191; Conservative 0; Mismatches 127; Indels 6; Gaps 1
QY 313 TCCTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGAGTGGTGG 372
DB 83 TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAGAAACTCGCAAAATGGTGG 142
QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAAATGA 432
DB 143 CTATCCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGGCCGAAATCAGAGGATGA 196
QY 433 TGGCCGTGGTGGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCCTCGTGGACATGG 492
DB 197 TGAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCGCTGTGGAACCTGGTGGATATCG 256
QY 493 GTCCCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAATACCTCCGTCATCCTGGCCGAAC 552
DB 257 GAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCCTATTCTGCTCGGAGGC 316

Qy	553	TGGGGAGCGATCCCAAGCAAGCCGCTGTGCTTCTACGGCCACTTGGACGTGCAGCCTG	611
Db	317	TGGGCTCCGACCCACAGAAAGACCCGTGTGCATTTACGGGCACCTGGATGTGCAGCCTG	376
Qy	613	CTGACCGGGCGGATGGGTGGCTCA	636
Db	377	CAGCCCTGGAGGACGGCTGTGACA	400
RESULT 106			
AAQ98684			
ID	AAQ98684 standard; cDNA; 273 BP.		
XX			
AC	AAQ98684;		
XX			
DT	20-DEC-1995 (first entry)		
XX			
DE	Tr22-GSE.		
XX			
KW	Genetic suppressor element; Tr19-GSE; fibroblast; tumorigenesis;		
KW	retrovirus; tumor; cancer; gene therapy; ss.		
XX			
OS	Mus sp.		
XX			
PN	WO9523855-A2.		
XX			
PD	08-SEP-1995.		
XX			
PF	01-MAR-1995; 95WO-US002521.		
XX			
PR	02-MAR-1994; 94US-00204740.		
XX			
PA	(UNII) UNIV ILLINOIS FOUND.		
XX			
PI	Gudkov A, Kazarov A, Mazo I, Roninson IB;		
XX			
DR	WPI; 1995-320570/41.		
XX			
PT	Isolation of genetic suppressor elements (GSEs) - useful in diagnostic		
PT	assays for determining GSE mRNA expression levels and in the treatment of		
PT	malignant cancers.		
XX			
PS	Example 2; Fig 16; 61pp; English.		
XX			
CC	Retrovirus pLNCX particles contg. a normalized random mouse NIH3T3 cDNA		
CC	library were used to transfect virus-packaging NIH3T3 fibroblasts. These		
CC	were inoculated into BALB/c nude mice and tumor-bearing mice were then		
CC	selected. Virus was rescued from the tumors and inserts (putative		
CC	tumorigenic GSEs) were sequenced. cDNA insert Tr22-GSE represents a		
CC	fragment of a novel gene		
XX			
SO	Sequence 273 BP; 59A; 69 C; 101 G; 44 T; 0 U; 0 Other;		

	Query Match	4.4%;	Score 98.8;	DB 9;	Length 403;
	Best Local Similarity	59.0%;	Pred. No. 1.1e-11;		
	Matches 191;	Conservative	0; Mismatches 127;	Indels	6; Gaps
					1;
Qy	313	TCTTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACCGCTGAAGGAGTGGGTGG	372		
Db	83	TGTTTAAGTACATAGATGAAATCAGGATCGCTACATTAAAGAAACTCGCAAAATGGGTGG	142		
Qy	373	CCATCCAGAGCGACTCTGTCCAGCCTGTGTGCCCTCGCTTCAGACAAGAGACTCTTCAGAATGA	432		
Db	143	CTATCCAGAGTGTTCTGCTGGCCGGAG-----AAGAGAGGCCGAAATCAGGAGGATGA	196		
Qy	433	TGGCCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGG	492		
Db	197	TGGAAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCGCTGTGGAACTGGTGGATATCG	256		
Qy	493	GTCTCTCAGCAGCTGCCCGATGGTTCAGAGTCTTCCAATA CCTCCGTCATCTCGGCCGAAC	552		
Db	257	GAAAACAAAAGCTCCCTGATGGCTCGGAGATCCCGCTCCCTCCCTATCTTGCTCGGCAGGC	316		

RESULT 108	DE	Cat flea hindgut and Malpighian tubule (HMT) cDNA, SEQ ID NO:531.
AAC18056	XX	
ID AAC18056 standard; cDNA; 334 BP.	—KW	Cat flea; hindgut and Malpighian tubule nucleic acid; HMT;
XX AC	KW	flea infestation; vaccine; antiparasitic; therapeutic target; diagnosis;
XX AAC18056;	KW	detection; ss.
DT 06-OCT-2000 (first entry)	XX	
XX	OS	Ctenocephalides felis.
DE Human secreted protein 5' EST, SEQ ID NO: 22131.	XX	
XX	PN	WO200061621-A2.
KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;	PD	19-OCT-2000.
KW gene therapy; chromosome mapping; ss.	XX	
XX	PF	07-APR-2000; 2000WO-US009437.
OS Homo sapiens.	XX	
XX	PR	09-APR-1999; 99US-0128704P.
PN EP1033401-A2.	XX	(HESK-) HESKA CORP.
XX	PA	
PD 06-SEP-2000.	XX	
XX	PI	Brandt KS, Gaines PJ, Stinchcomb DT, Wisniewski N;
PF 21-FEB-2000; 2000EP-00200610.	XX	
XX	DR	WPI; 2000-656323/63.
PR 26-FEB-1999; 99US-0122487P.	XX	
XX (GEST) GENSET.	PT	Flea Malpighian tubule and head and nerve cord tissue derived nucleic
PA	PT	acids useful for the prevention, diagnosis and treatment of flea
XX	PT	infestations.
PI Dumas Milne Edwards J, Duclert A, Giordano J;	XX	
XX	PS	Claim 26; Page 421; 964pp; English.
DR WPI; 2000-500381/45.	XX	
XX	CC	The invention relates to novel cat flea (Ctenocephalides felis) nucleic
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for	CC	acids which are expressed in hindgut and Malpighian tubule (HMT) tissue
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for	CC	or head and nerve cord (HNC) tissue. The invention also relates to the
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.	CC	encoded proteins. The invention additionally encompasses expression
XX	CC	constructs, recombinant viruses and recombinant cells comprising the
PS Claim 1; SEQ ID NO 22131; 71pp + Sequence Listing; English.	CC	nucleic acids of the invention, recombinant production of the proteins,
XX	CC	antibodies against the proteins, a method of identifying inhibitors of
CC The present sequence is one of a large number of 5' ESTs derived from	CC	the proteins, and compositions comprising the inhibitors for
CC mRNAs encoding secreted proteins. No ORF has yet been conclusively	CC	administration to an animal. The nucleic acids, and the proteins they
CC identified within the present sequence. The 5' ESTs were prepared from	CC	encode may be used in the prevention, treatment and diagnosis of diseases
CC total human RNAs or polyA+ RNAs derived from 30 different tissues. EST	CC	associated with flea infestations. For example, the nucleic acids may be
CC sequences usually correspond mainly to the 3' untranslated region (UTR)	CC	used to produce an HMT or HNC protein according to standard recombinant
CC of the mRNA because they are often obtained from oligo-dT primed cDNA	CC	DNA methodology by inserting the nucleic acids into a host cell and
CC libraries. Such ESTs are not well suited for isolating cDNA sequences	CC	culturing the cell to express the protein. The HMT and HNC nucleic acids
CC derived from the 5' ends of mRNAs and even in those cases where longer	CC	may also be used as DNA probes in diagnostic assays (e.g., PCR) to detect
CC cDNA sequences have been obtained, the full 5' UTR is rarely included. 5'	CC	and quantitate the presence of cat flea or other homologous nucleic acid
CC ESTs are derived from mRNAs with intact 5' ends and can therefore be used	CC	sequences in samples. They may also be used to study the expression and
CC to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in	CC	function of the proteins and their role in metabolism. The HMT and HNC
CC diagnostic, forensic, gene therapy and chromosome mapping procedures.	CC	proteins may be used as antigens in the production of specific
CC They are used to obtain upstream regulatory sequences and to design	CC	antibodies, and in assays to identify modulators (agonists and
CC expression and secretion vectors	CC	antagonists) of HMT and/or HNC protein expression and activity. The anti-
XX	CC	HMT/HNC protein antibodies and antagonists may also be used to
SQ Sequence 334 BP; 80 A; 85 C; 43 G; 123 T; 0 U; 3 Other;	CC	downregulate protein expression and activity. The antibodies may also be
Query Match 4.1%; Score 92.2; DB 3; Length 334;	CC	used as diagnostic agents for detecting the presence of flea polypeptides
Best Local Similarity 95.9%; Pred. No. 2.9e-10;	CC	in samples (e.g., by enzyme linked immunosorbent assay (ELISA)). The
Matches 94; Conservative 0; Mismatches 4; Indels 0; Gaps 0;	CC	present sequence represents a cat flea HMT cDNA of the invention
	XX	
QY 2090 CGTGACACATAATCATTCATCCATCCAAATGATCGCCTTTGCTTTACCACTCTTTCTTTTATC 2149	SQ	Sequence 550 BP; 182 A; 84 C; 133 G; 151 T; 0 U; 0 Other;
Db 1 CGTGACACATAATCATTCATCCATCCAAATGATCGCCTTTACTTTACCACTCTTTCTTTTATC 60		Query Match 4.1%; Score 92.2; DB 3; Length 550;
		Best Local Similarity 52.9%; Pred. No. 3.3e-10;
QY 2150 TTATTAATAAAAAATGTTGGTCTCCACCAGCTGNCCTCCCA 2187		Matches 243; Conservative 0; Mismatches 213; Indels 3; Gaps 2;
Db 61 TTATTAATAAAAAATGTTGGTCTCCACCAGCTGACTACAA 98		
		QY 320 GTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGGCATCGA 379
	Db	53 GTTCAGCCACATCGACCAGATAAGAAAAGGTACATTGATGTATTATCTGAAGCTGTAGC 112
		QY 380 GACCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGATGGCCGT 439
	Db	113 AATCAAATCAGTGTCCGATGGGCAGACAGTCGACAAGAAGTTGTTAAATGGTTAAATG 172
		QY 440 GGCTGGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGGGTCTCA 499
	Db	173 GGCTGAACAACGATTGAAGGCTCTCGGGCGCAACCAACAGAAATTAGCAGATGTTGGAAAAA 232
RESULT 109		
AAC94036		
ID AAC94036 standard; cDNA; 550 BP.		
XX		
AC AAC94036;		
XX		
DT 19-FEB-2001 (first entry)		
XX		

QY		1290	GTCATACCTGGCCGAGTTATAGGAATAATTTCAAATCCGTCTAGTCCCCTCACATGAATGTG	1349
Dd		964	ATTTTACCTGCAGAACCCAGTGCCAAGCTAGAGGTTCGTCTGGTTCGGGCCCTAGAACC	1023
QY		1350	TCTGCGGTGAAAAAACAAGGTGACACGACATCTTGA	1384
Dd		1024	CATGATGTTCTGGAAAAAATTCGGAACAGCTAGA	1058

RESULT 111
ADM91824
ID ADM91824 standard; DNA; 1371 BP.
XX
AC ADM91824;
XX
DT 03-JUN-2004 (first entry)
XX
DE S pneumoniae antigenic protein-encoding gene sequence SeqID21.
XX
KW antibacterial; gene therapy; Streptococcus pneumoniae infection;
KW antigenic; gene; ds.

Claim 1; SEQ ID NO 21; 123pp; English.

This invention relates to novel isolated Streptococcus pneumoniae nucleic acid molecules and the antigenic polypeptides encoded by them. The invention may be useful for the production of compounds with an antibacterial activity or for gene therapy. The nucleic acid molecules, compositions and methods disclosed are useful for treating Streptococcus pneumoniae infection. The present sequence is that of an S pneumoniae gene of the invention.

Sequence 1371 BP; 376 A; 265 C; 368 G; 362 T; 0 U; 0 Other;

430	Db	GATTACCTGTCAATATCAGCTTTATCATGGAGGACGGAGGAATCGGCTTCAACAGAC	489
816	Qy	CTGGAGGAACCTGTGGAAAAAGAAAGGACCGATTCTTCTCTGGTGTGGACTACATTGTA	875
490	Db	CTAGATAAAGTATTTGGAAAAAGCATGCAAGACAAA---CTCCGTGGGCGGATTTGTTGGTC	546
876	Qy	ATTTCAGATAAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCATTTATGGAAACCCGGGGG	935
547	Db	TGGGAACAAGGGACCAAAAATGCCCTTGGAAACAGCTGGAAATTTCTGGTGGCAATAAGGGG	606
936	Qy	AACAGCTACTTCATGGTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTT	995
607	Db	ATTGTGACCTTTGATGCCAAGGTAAAAAGCGCTGATGTGGATATCCACTCGAGTTATGGT	666
996	Qy	GGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGTGTAGCCTGGTAGAC	1055
667	Db	GGTGTTGTGGAATCAGCTCCTTGGTATCTCCTCCAAGCCTTACAGTCTCTTCGTGCTG--	724
1056	Qy	TCGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCCCTTTACAGAAGAG	1115
725	Db	-CGGATGGCGGTATCTTGGTTGAAGGCTTGTACGAAGAAGTACAAGAGCCCCAATGAACGA	783
1116	Qy	GAAATAATACATACAAAGCCATCCAATCTAGACCTAGAGAATACCGGAATAGCAGCCGG	1175
784	Db	GAAATGGCCTTGCTAGAAAATTTATGGTCAACGAAACCCAGAGGAAGTTAGTCGGATTTAT	843
1176	Qy	GTTGAGAAAATTTCTGTTTCGATACTAAGGAGGAGA-----TTCTAATGCACCTCTGGAGG	1229
844	Db	GGATTGGAGTTGCCTCTCTTACAGGAGGAGCGGATGGCCTTTCTAAAACGTTTCTTTTTC	903
1230	Qy	TACCCATCTTTTCTATTTCATGGGATCGAGGCGCGTTTGTATGAGCCTGGAACTAAAAACA	1289
904	Db	GATCCAGCGCTTAATATCGAAGGAATCCAGTCTGGTTATCAAGGTCAGGGTGTAAAGACT	963
1290	Qy	GTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGTCTAGTCCCTCACATGAATGTG	1349
964	Db	ATTTTACCTGCAGAAAGCCAGTGCCAAAGCTAGAGGTTCTGTTCTCGGTCCTAGAACCG	1023
1350	Qy	TCGCGGTGGAATAAACAGGTGACACGACATCTTGA	1384
1024	Db	CATGATGTTCTGGAAAAAAATTCGGAACACAGCTAGA	1058

RESULT 112
ABZ42150
ID ABZ42150 standard; DNA; 1389 BP.
XX
AC ABZ42150;
XX
DT 04-MAR-2003 (first entry)
XX
DE Streptococcus pneumoniae polynucleotide SEQ ID NO 4.
XX
KW Streptococcus pneumoniae; infection; otitis media; antibacterial;
KW diagnosis; gene therapy; gene; ds.
XX
OS Streptococcus pneumoniae.
XX
PN WO200283855-A2.
XX
PD 24-OCT-2002.
XX
PF 12-APR-2002; 2002WO-US011524.
XX
PR 16-APR-2001; 2001US-0283948P.
PR 18-APR-2001; 2001US-0284443P.
XX
PA (AMCY) AMERICAN CYANAMID CO.
XX
PI Zagursky RJ, Masi AW, Green BA, Chakravarti DN, Russell DP;
PI Wooters JL;
XX
DR WPI; 2003-093010/08.

DR P-PSDB; ABP81302.

XX New Streptococcus pneumoniae polynucleotides, useful for treating or

PT preventing S. pneumoniae infections, or non-systemic diseases, e.g.

PT otitis media, which are induced or exacerbated by S. pneumoniae.

XX

PS Claim 1; Page 181-182; 1091pp; English.

XX

CC The invention relates to isolated polynucleotides (ABZ72147-ABZ42522) of

CC a Streptococcus pneumoniae genomic sequence, a fragment or degenerate

CC variant of the polynucleotide or a nucleic acid sequence 95% identical to

CC one of the polynucleotides. The S. pneumoniae polynucleotides and encoded

CC polypeptides (ABP81299-ABP81674) are useful for treating or preventing S.

CC pneumoniae infections or non-systemic diseases, e.g. otitis media, which

CC are induced or exacerbated by S. pneumoniae. These are also useful for

CC detecting S. pneumoniae in a biological sample or diagnosing S.

CC pneumoniae infection in a subject. The polynucleotides have antibacterial

CC activity and are useful in gene therapy

XX

SQ Sequence 1389 BP; 385 A; 265 C; 374 G; 365 T; 0 U; 0 Other;

Query Match 3.8%; Score 85.8; DB 8; Length 1389;

Best Local Similarity 46.7%; Pred. No. 1.1e-08;

Matches 381; Conservative 0; Mismatches 422; Indels 12; Gaps 3;

QY 576 ACCGTGTGCTTCTACGCCCACTTGGACGTGCAGCTGCTGACCGGGCGGATGGTGGCTC 635

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

265 ACCTTGATTTCTATAACCACTATGACACTGTGCCCGGATGGGATCAGTCTGGACA 324

QY 636 ACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGACGACCGAC 695

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

325 GAGGATCCTTTTACGCTTCGGTCCGCAATGGCTTCATGTATGGCGTGGGTTGATGAC 384

QY 696 AACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAA 755

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

385 GACAAGGTCATATACAGCTCGCTTGAGTGTCTTGAGAAAATATATGCAGCACCATGAT 444

QY 756 GATCTTCTGTGAATATCAAAATTCATCATTGAGGGGATGGAAGGCTGGCTCTGTTGCC 815

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

445 GATTACCTGTCAATATCAGCTTTATCATGAGGAGCGGAGGAATCGGCTTCAACAGAC 504

QY 816 CTGGAGGAACCTTGTGGAAAAAGAAAGGACCGGATCTTCTCTGCTGTGGACTACATTGTA 875

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

505 CTAGATAAGTATTTGGAAAAGCATGCAGACAAA---CTCCGTGGGCGGATTTGTTGGTC 561

QY 876 ATTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGG 935

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

562 TGGGAACAAGGGACCAAAAATGCCTTGGAAACAGCTGGAAATTTCTGTTGCAATAAGGG 621

QY 936 AACAGCTACTTTCATGCTGGAGGTGAAATGCAGAGACCAGGATTTTCACTCAGGAACCTTT 995

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

622 ATTGTGACCTTTGATGCCAAGGTAAAAAGCGCTGATGTGGATATCCACTCGAGTTATGGT 681

QY 996 GGTGGCATCCTTCATGAACCAATGGCTGATCGTGTGCTCTTCTCGGTAGCTGGTAGAC 1055

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

682 GGTGTTGTGGAATCAGCTCCTTGGTATCTCCTCCAAGCCTTACAGTCTCTCGTGTG-- 739

QY 1056 TCGTCTGGTCATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCTCTTACAGAAGAG 1115

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

740 -CGGATGGCCGTATCTTGGTTGAAGCTTGACGAAGAAGTACAAGAGCCCAATGAACGA 798

QY 1116 GAAATAAATACATACAAAAGCCATCCATCTAGACCTAGAGAATACCGGAATAGCAGCCGG 1175

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

799 GAAATGGCCTTGTAGAAAACCTTATGGTCAACGAAACCCAGAGGAAGTTAGTCGGATTTAT 858

QY 1176 GTTGAGAAATTTCTGTTTCGATACTAAGGAGGAGA-----TTCTAATGCACCTCTCGAGG 1229

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

859 GGATTGGAGTTGCCTCTCTTACAGGAGGAGCGGATGGCCTTTCTAAAACGTTTCTTTTC 918

QY 1230 TACCCATCTCTTTCTATTCATGGGATCGAGGGCGGTTTGATGAGCCTGGAACATAAACA 1289

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

919 GATCCAGCGCTTAATATCGAAGGAATCCAGTCTGGTTATCAAGGTCAGGTTGTTAAGACT 978

QY 1290 GTCATACCTGGCCGAGTTATAGGAAAAATTTCAATCCGTCTAGTCCCTCATGAATGTG 1349

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

979 ATTTTACCTGCAGAACCCAGTGCCCAAGCTAGAGGTTCGTCTGGTCCGGGCTAGAACCG 1038

QY 1350 TCTGCGGTGGAACAAACAGGTGACACGACATCTTGA 1384

DB ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

1039 CATGATGTTCTGGAAAAAATTCGGAACACAGCTAGA 1073

RESULT 113

AAV52358

ID AAV52358 standard; DNA; 3766 BP.

XX

AC AAV52358;

XX

DT 23-OCT-1998 (first entry)

XX

DE Streptococcus pneumoniae genome fragment SEQ ID NO:225.

XX

KW Streptococcus pneumoniae; S. pneumoniae; genome; diagnosis; assay;

KW computer readable medium; vaccine; pharmaceutical composition; ds.

XX

OS Streptococcus pneumoniae.

XX

PN W09818931-A2.

XX

PD 07-MAY-1998.

XX

PF 30-OCT-1997; 97WO-US019588.

XX

PR 31-OCT-1996; 96US-0029960P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Kunsch CA, Choi GH, Dillon PJ, Rosen CA, Barash SC, Fannon M;

PI Dougherty BA;

XX

DR WPI; 1998-272225/24.

XX

PT Computer-readable medium with recorded Streptococcus pneumoniae

PT polynucleotide sequences - useful in diagnostic kits and assays, and

PT pharmaceutical compositions and vaccines for Streptococcus pneumoniae.

XX

PS Claim 1; Page 1239-1241; 1409pp; English.

XX

CC The present invention describes a computer readable medium which has the

CC nucleotide sequences SEQ ID NO:1 to 391 (AAV52134 to AAV52524) recorded

CC on it, or a representative fragment or a sequence at least 95% identical

CC to SEQ ID NO: 1 to 391. The nucleotide sequences depicted in SEQ ID NO:1

CC to 391 (AAV52134 to AAV52524) are genomic fragments from Streptococcus

CC pneumoniae. The present invention also describes an isolated nucleic acid

CC molecule encoding a homologue of any of the fragments of the S.pneumoniae

CC genome (SEQ ID NO:1 to 391) where the nucleic acid molecule is produced

CC by a process comprising: (a) screening a genomic DNA library using as a

CC probe a target sequence defined by any of the sequences in SEQ ID NO:1 to

CC 391, identifying members of the library which contain sequences that

CC hybridise to the target sequence and isolating the nucleic acid molecules

CC from the members; or (b) isolating mRNA, DNA or cDNA produced from an

CC organism, amplifying nucleic acid molecules whose nucleotide sequence is

CC homologous to amplification primers derived from the fragment of the S.

CC pneumoniae genome to prime the amplification and isolating the amplified

CC sequences. The computer readable medium can be used in a computer-based

CC system for identifying fragments of the S. pneumoniae genome of

CC commercial importance, or expression modulating fragments of the S.

CC pneumoniae genome. Products from the present invention can be used in

CC diagnosis kits and assays, and pharmaceutical compositions and vaccines

CC for S. pneumoniae

XX

SQ Sequence 3766 BP; 1143 A; 737 C; 896 G; 989 T; 0 U; 1 Other;

Query Match 3.8%; Score 85.8; DB 2; Length 3766;

Best Local Similarity 46.7%; Pred. No. 1.5e-08;

Matches 381; Conservative 0; Mismatches 422; Indels 12; Gaps 3;

QY	576	ACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGACCGGGCGATGGTGGCTC	635
Db	1233	ACCTTGATTTCTATAACCACTATGACACTGTGCCAGCGATGGGATCAGGTCCTGGACA	1292
QY	636	ACGGACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTTATGACGAGGACGACCGAC	695
Db	1293	GAGGATCCKTTTACGCTTTCGGTCCGCAATGGCTTCATGTATGGCGTGGGTTTGATGAC	1352
QY	696	AACAAAGGCCCTGTCTTGGCTTGATCAATCTGTGAGCGCCTTCAGAGCCCTGGAGCA	755
Db	1353	GACAAGGTCATATCACAGCTCGCTTGAGTGCTTTGAGAAAATATATGCAGCACCATGAT	1412
QY	756	GATCTTCCTGTGAATATCAAAATTCATATTGAGGGATGGAAGGCTGGCTCTGTTGCC	815
Db	1413	GATTTACCTGTCAATATCAGCTTTTATCATGGAGGGAGCGGAGGAATCGGCTTCAACAGAC	1472
QY	816	CTGGAGGAACCTTGTGGAAAAAGAAAGGACCGGATTCTTCTCTGCTGTGTGGACTACATTGA	875
Db	1473	CTAGATAAGTATTTGGAAAAGCATGCAGACAAA---CTCCGTGGGCGGATTTGTTGGTC	1529
QY	876	ATTTCAAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCGGGG	935
Db	1530	TGGGAACAAGGGACCAAAAATGCCTTGGAAACAGCTGGAAATTTCTGGTGGCAATAAGGG	1589
QY	936	AACAGCTACTTCATGGTGGAGGTGAATGCAGAGACCAGGATTTTCACTCAGGAACCTTT	995
Db	1590	ATTGTGACCTTTGATGCCAAGGTAAAAAGCGCTGATGTGATATCCACTCGAGTTATGCT	1649
QY	996	GGTGGCATCCTTCATGAACCAATGGCTGATCTGGTTGCTCTTCTCGGTAGCCTGCTAGAC	1055
Db	1650	GGTGTGTGGAATCAGCTCCTTGGTATCTCCTCCAAGCCTTACAGTCTCTTCGTGCT--	1707
QY	1056	TCGTCTGTTCATATCCTGGTCCCTTGAATCTATGATGAAGTGGTTCTCTTACAGAAGAG	1115
Db	1708	-CGGATGGCGGTATCTTGGTTGAAGGCTTGACGAAGAGTGTACGAAGAGTCAAGAGCCCA	1766
QY	1116	GAATAAATACATACAAAGCCATCCATCTAGACCTAGAAAGATACCCGGAATAGCAGCCGG	1175
Db	1767	GAAATGGCCTTGCTAGAAACTTATGGTCAACGAAACCCAGAGGAAGTTAGTCGGATTAT	1826
QY	1176	GTGAGAAATTTCTGTTCGATACTAAGGAGGAGA-----TTCTAATGCACCTCTGGAGG	1229
Db	1827	GGATTGGAGTTGCCTCTCTTTACAGGAGGCGGATGGCCCTTTCTAAAAACGTTTCTTTTC	1886
QY	1230	TACCAATCTCTTCTATTTCATGGGATCGAGGCGCGTTTTGATGAGCCTTGAACATAAACA	1289
Db	1887	GATCCAGCGCTTAATATCGAAGGAATCCAGTCTGGTTATCAAGGTGAGGTGTTAAGACT	1946
QY	1290	GTCATACCTGGCCGAGTTATAGGAAAATTTTCAATCCGCTAGTCCCTCACATGAATGTG	1349
Db	1947	ATTTTACCTGCAGAAGCCAGTCAGTCCCAAGCTAGAGGTTCTGCTGTTCCGGGCCCTAGA	2006
QY	1350	TCTCGGTGGAAAAACAGGTGACACGACATCTTGA	1384
Db	2007	CATGATGTTCTGGAAAAAATTCGGAACACAGCTAGA	2041

RESULT 114
ABS56454_00
WP Sequence split into 22 fragments LOCUS ABS56454 Accession Abs56454

Fragment Name	Begin	End
ABS56454_00	1	110000
ABS56454_01	100001	210000
ABS56454_02	200001	310000
ABS56454_03	300001	410000
ABS56454_04	400001	510000
ABS56454_05	500001	610000
ABS56454_06	600001	710000
ABS56454_07	700001	810000
ABS56454_08	800001	910000
ABS56454_09	900001	1010000
ABS56454_10	1000001	1110000

WP	ABS56454_11	1100001	1210000
WP	ABS56454_12	1200001	1310000
WP	ABS56454_13	1300001	1410000
WP	ABS56454_14	1400001	1510000
WP	ABS56454_15	1500001	1610000
WP	ABS56454_16	1600001	1710000
WP	ABS56454_17	1700001	1810000
WP	ABS56454_18	1800001	1910000
WP	ABS56454_19	1900001	2010000
WP	ABS56454_20	2000001	2110000
WP	ABS56454_21	2100001	2162598
ID	ABS56454 standard; DNA; 2162598 BP.		
XX			
AC	ABS56454;		
XX			
DT	27-OCT-2003 (revised)		
DT	10-FEB-2003 (first entry)		
XX	Streptococcus pneumoniae type 4 strain complete genome.		
KW	ds; bacterial meningitis; pneumonia; sepsis; otitis media; genome;		
KW	ear infection; antiinflammatory; antibacterial; immunostimulant;		
KW	auditory; respiratory; gene therapy; vaccine.		
XX	Streptococcus pneumoniae; type 4 strain.		
OS			
XX			
PN	WO200277021-A2.		
XX			
PD	03-OCT-2002.		
XX			
PF	27-MAR-2002; 2002WO-IB002163.		
XX			
PR	27-MAR-2001; 2001GB-00007658.		
XX			
PA	(CHIR-) CHIRON SPA.		
PA	(GENO-) INST GENOMIC RES.		
XX			
PI	Masignani V, Tettelin H, Fraser C;		
XX			
DR	WPI; 2003-040579/03.		
XX			
PT	New proteins and nucleic acid molecules from Streptococcus pneumoniae,		
PT	useful as medicaments for treating or preventing a disease or infection		
PT	due to streptococcus bacteria, such as pneumonia, sepsis, otitis media or		
PT	ear infection.		
XX			
PS	Claim 17; SEQ ID NO 4979; 56pp; English.		
XX			
CC	The invention relates to a protein comprising or having at least 50%		
CC	identity to any of the 2469 amino acid sequences, identified in the		
CC	specification (available on a computer readable format), or its fragment,		
CC	expressed from 2469 of 2489 identified DNA coding regions from the		
CC	Streptococcus pneumoniae type 4 strain genomic sequence appearing as		
CC	ABS56454. Also included are an antibody which binds one of the proteins,		
CC	treating a patient by administering the protein, DNA or antibody (in a		
CC	composition), a kit comprising first and second primers, which are the		
CC	nucleic acid cited above or fragments between nucleotides 8-100 of a		
CC	sequence not defined in the specification, for amplifying a target		
CC	sequence contained within a Streptococcus nucleic acid sequence, where		
CC	the first primer is substantially complementary to the target sequence		
CC	and the second primer is substantially complementary to the complement of		
CC	the target sequence, and where the parts of the primers having		
CC	substantial complementarity define the termini of the target sequence to		
CC	be amplified, assay comprising contacting a test compound with the		
CC	protein, and determining whether the test compound binds to the protein		
CC	and a Streptococcus pneumoniae bacterium, where one or more genes		
CC	encoding the proteins has been rendered inactive. The proteins, nucleic		
CC	acid molecules, antibody and compositions are useful as medicaments for		
CC	treating or preventing a disease or infection due to streptococcus		
CC	bacteria, particularly S. pneumoniae, such as pneumonia, sepsis, otitis		
CC	media or ear infection. They are also useful in developing vaccines,		
CC	diagnostics and antibiotics. The methods are useful for identifying		
CC	immunodominant proteins. The present sequence is the Streptococcus		

Qy	681	CGAGGACGACCGACAACAAAGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC	740
Db	418	CGGGGTGTCTGTATAACAAGGCCAACTTGATGCCCCGGCTCAATGCCATCCAGTCTTC	477
Qy	741	AGAGCCCTGGAGCAAGATCTTCCTGTGAATATCAAATTCATCATTTAGGGGATGGAAGAG	800
Db	478	TTAGAAGACCATGATGGCCTGCCGATCAATATTAAAGTTCTTCATTGAAGGGGAAGAAGAG	537
Qy	801	GCTGGCTGTGTTGCCCTGGAGGAACCTGTGTGGAAAAAGAAAGGACCGATT	850
Db	538	ATCGGTAGTGTCCACATTGATGATTATTATTAGCCCAATACCAGGACAAGTT	587
RESULT 116			
ADB12064_07			
Continuation (8 of 18) of ADB12064 from base 700001 (Alloiooccus otitis entire genome s			
WP Sequence split into 18 fragments LOCUS ADB12064 Accession Adb12064			
WP	Fragment Name	Begin	End
WP	ADB12064_00	1	110000
WP	ADB12064_01	100001	210000
WP	ADB12064_02	200001	310000
WP	ADB12064_03	300001	410000
WP	ADB12064_04	400001	510000
WP	ADB12064_05	500001	610000
WP	ADB12064_06	600001	710000
WP	ADB12064_07	700001	810000
WP	ADB12064_08	800001	910000
WP	ADB12064_09	900001	1010000
WP	ADB12064_10	1000001	1110000
WP	ADB12064_11	1100001	1210000
WP	ADB12064_12	1200001	1310000
WP	ADB12064_13	1300001	1410000
WP	ADB12064_14	1400001	1510000
WP	ADB12064_15	1500001	1610000
WP	ADB12064_16	1600001	1710000
WP	ADB12064_17	1700001	1754382
Query Match			
Best Local Similarity 3.8%; Score 85.2; DB 9; Length 110000;			
Matches 162; Conservative 55.9%; Pred. No. 6e-08; Mismatches 128; Indels 0; Gaps 0;			
Qy	561	GATCCCACGAAGGCACCGTGTGCTTCTACGGCCACTTGGACGTGCAGCCTGCTGACCCG	620
Db	61000	GAAGCCACAAGCCGACCTTACTCATTTACAACCACTATGATGTCCAGCCGGAAGACCCG	61059
Qy	621	GGCGATGGTGGCTCAGGCACCCCTATGTGCTGACGGAGGTAGACGGGAAACTTTATGGA	680
Db	61060	GTTGAGGAGTGGCGAACTAGACCCCTTTGAACCAAGTTGAAAAAGACGGGGCCATCTATTGC	61119
Qy	681	CGAGGACGACCGACAACAAAGGCCCTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTC	740
Db	61120	CGGGGTGTGTCTGTATAACAAGGCCAACTTGATTGCCCGGCTCAATGCCATCCAGTCTTC	61179
Qy	741	AGAGCCCTGGAGCAAGATCTTCCTGTGAATATCAAATTCATCATTTAGGGGATGGAAGAG	800
Db	61180	TTAGAAGACCATGATGGCCTGCCGATCAATATTAAAGTTCTTCATTGAAGGGGAAGAAGAG	61239
Qy	801	GCTGGCTGTGTTGCCCTGGAGGAACCTGTGTGGAAAAAGAAAGGACCGATT	850
Db	61240	ATCGGTAGTGTCCACATTGATGATTATTATTAGCCCAATACCAGGACAAGTT	61289
RESULT 117			
AAX91990_11/c			
Continuation (12 of 13) of AAX91990 from base 1100001 (Nucleotide sequence of the comple			
WP Sequence split into 13 fragments LOCUS AAX91990 Accession Aax91990			
WP	Fragment Name	Begin	End
WP	AAX91990_00	1	110000
WP	AAX91990_01	100001	210000
WP	AAX91990_02	200001	310000
WP	AAX91990_03	300001	410000
WP	AAX91990_04	400001	510000

WP	AAX91990_05	500001	610000
WP	AAX91990_06	600001	710000
WP	AAX91990_07	700001	810000
WP	AAX91990_08	800001	910000
WP	AAX91990_09	900001	1010000
WP	AAX91990_10	1000001	1110000
WP	AAX91990_11	1100001	1210000
WP	AAX91990_12	1200001	1230025
Query Match			
Best Local Similarity 3.6%; Score 80; DB 2; Length 110000;			
Matches 255; Conservative 48.5%; Pred. No. 8.3e-07; Mismatches 265; Indels 6; Gaps 1;			
Qy	586	TCTACGGCCACTTGGACGTGCAGCCTGCTGACCCGGGGCGATGGTGGCTCACGGACCCCT	645
Db	36774	TCATAACCACTATGATGTGCAGCCAGCACAGCTATCTGATGTTGGAAGGAGATCCCT	36715
Qy	646	ATGTGCTGACGGAGGTAGACGGGAAACTTTATGGACGAGGAGCGACCGACAACAAAGGCC	705
Db	36714	TTATCCTTAGAAGAGAAATGGCAATCTCTATGCCCGAGGAGCCTCTGTATAACAAAGGAC	36655
Qy	706	CTGTCTTGGCTTGGATCAATGCTGTGAGCGCCTTCAGAGCCCTGGAGCAAGATCTTCCCTG	765
Db	36654	AATGTTTTTACACCTTAAAGGCATTTACAGCACTATTACGAATCTCAAGGAAACTTCCCTC	36595
Qy	766	TGAATATCAAATTCATCATTTAGGGGATGGAAGAGGTGGCTCTGTTGCCCTGGAGGAAC	825
Db	36594	TAAATATTATTGTTAATTGAGGGTGAAGAAGAGAGTGGGAGTCTCGCATTTATTTACTT	36535
Qy	826	TTGTGAAAAAGAAAGGACCGCATTTCTCTCTGGTGTGACTACATTTGTAATTTCAGATA	885
Db	36534	GGTAGAAAAAGAAAAAGAGCTTT-----ACGCGCGGACTATCTTCTGATCGTAGATG	36481
Qy	886	ACCTGTGGATCAGCCAAAGGAAGCCAGCAATCACTTATGGAACCCCGGGGAACAGCTACT	945
Db	36480	GGGGTTTCCTTCTGAAAAAACACCCCTACGTAAGCATTTGGAGCTCGGGTATTGTTTCCA	36421
Qy	946	TCATGGTGGAGGTGAAATGCAGAGACCAAGGATTTTCACTCAGGAACCTTTGGTGGCATCC	1005
Db	36420	TGAAAATCTCCCTTGAAGAGGGGAAACAAGGACATGCACTCAGGAGTTTtaggaggaattg	36361
Qy	1006	TTCATGAACCAATGGCTGATCTGTGTTGCTCTTCTCGGTAGCCTGGTAGACTCGTCTGGTC	1065
Db	36360	CCTACAATACGAATCGTGTCTTATCAGAAATTTCTGAGTCTCTGCACTCACCCCTGACAAT	36301
Qy	1066	ATATCCTGGTCCCTGGAATCTATGATGAAGTGGTTCCTCTTACAGA	1111
Db	36300	CTATAGCTATTGAAGGATTTTATGATGATCTTGTCTCTCCCTCGGA	36255
RESULT 118			
AAS59535/c			
ID	AAS59535	standard; DNA; 26309 BP.	
XX	AAS59535;		
XX			
DT	13-FEB-2002	(first entry)	
XX			
DE	Propionibacterium acnes immunogenic protein encoding DNA #30.		
XX			
KW	SAPHO syndrome; synovitis; acne; pustulosis; hypertosis; osteomyelitis;		
KW	uveitis; endophthalmitis; bone; joint; central nervous system; ELISA;		
KW	inflammatory lesion; acne vulgaris; enzyme linked immunosorbent assay;		
KW	dermatological; osteopathic; neuroprotectant; ds.		
XX			
OS	Propionibacterium acnes.		
XX			
PN	WO200181581-A2.		
XX			
PD	01-NOV-2001.		
XX			
PF	20-APR-2001; 2001WO-US012865.		
XX			

PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.
PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.

PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;

WPI; 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis.

Disclosure; SEQ ID NO 39935; 3071pp + Sequence Listing; English.

AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially

FT intron 5132. .6435
FT /tag= l
FT /number= 6
FT 6436. .6742
FT /tag= m
FT /number= 7
FT 6743. .7118
FT /tag= n
FT /number= 7
FT 7119. .7633
FT /tag= o
FT /number= 8
FT 7634. .7835
FT /tag= p
FT /number= 8
FT 7836. .8335
FT /tag= q
FT /number= 9
FT 8336. .8424
FT /tag= r
FT /number= 9
FT 8425. .8907
FT /tag= s
FT /number= 10
FT 8908. .9505
FT /tag= t
FT /number= 10
FT 9506. .9676
FT /tag= u
FT /number= 11
FT 9677. .12497
FT /tag= v
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FT 12498. .12588
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FT 12589. .12794
FT /tag= x
FT /number= 12
FT 12795. .12994
FT /tag= y
FT /number= 13
FT 12995. .13642
FT /tag= z
FT /number= 13
FT 13643. .15389
FT /tag= aa
FT /number= 14
FT 15390. .16092
FT /tag= ab
FT /number= 14
FT 16093. .16187
FT /tag= ac
FT /number= 15
FT 16188. .17213
FT /tag= ad
FT /number= 15
FT 17214. .17375
FT /tag= ae
FT /number= 16
FT 17376. .18196
FT /tag= af
FT /number= 16
FT 18197. .18405
FT /tag= ag
FT /number= 17
FT 18406. .19847
FT /tag= ah
FT /number= 17
FT 19848. .20486
FT /tag= ai
FT /number= 18
FT 20487. .20521

FT exon /tag= aj
FT /number= 18
FT 20522. .20873
FT /tag= ak
FT /number= 19
FT 20874. .21275
FT /tag= al
FT /number= 19
FT 21276. .21619
FT /tag= am
FT /number= 20
FT 21620. .21713
FT /tag= an
FT /number= 20
FT 21714. .21943
FT /tag= ao
FT /number= 21
FT 21944. .22152
FT /tag= ap
FT /number= 21
FT 22153. .22514
FT /tag= aq
FT /number= 22
FT 22515. .22601
FT /tag= ar
FT /number= 22
FT 22602. .22754
FT /tag= as
FT /number= 23
FT 22755. .23068
FT /tag= at
FT /number= 23
FT 23069. .23481
FT /tag= au
FT /number= 24
FT 23482. .23651
FT /tag= av
FT /number= 24
FT 23652. .24788
FT /tag= aw
FT /number= 25
FT XX
PN WO200155309-A2.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001311.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.

PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
Query Match 3.5%; Score 79.4; DB 4; Length 24788;
Best Local Similarity 60.4%; Pred. No. 7.1e-07;
Matches 131; Conservative 0; Mismatches 86; Indels 0; Gaps 0;
QY 753 CAAGATCTTCCTGTGAATATCAAAATTCATCATGAGGGGATGGAAGAGGCTGGCTCTGTT 812
Db 10320 CAGGAGATTCCCTGTCACGTCGGATTCTGCCTCGAAGGCATGGAGGAGTCAGGCTCTGAG 10261
QY 813 GCCCTGGAGGAACCTTGGAAGAAAGAAAGGACCGGATTCTTCTCTGCTGTGGACTACATT 872
Db 10260 GGCCTAGACGAGCTGATTTTGGCCCGGAAAGACACATTCTTTAAGGATGTGGACTATGTC 10201
QY 873 GTAATTTTCAGATAACCTGTGGATCAGCCAAAGGAAGCCAGCAATCATTATGGAACCCGG 932
Db 10200 TGCATTTCTGACAATTACTGGCTGGGAAAGAAAGAGCCCTGCATCACCTACGGCCTCAGG 10141
QY 933 GGGAAACAGCTACTTTCATGGTGGAGGTGAAATGCAGAG 969
Db 10140 GGCATTTGCTACTTTTTCATCGAGGTACAGTGCCAAAG 10104

RESULT 125
AAC01627
ID AAC01627 standard; cDNA; 409 BP.
XX

AC AAC01627;
XX
DT 06-OCT-2000 (first entry)
XX
DE Human secreted protein 5' EST, SEQ ID NO: 1625.
XX
KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.
XX
OS Homo sapiens.
XX
PN EP1033401-A2.
XX
PD 06-SEP-2000.
XX
PF 21-FEB-2000; 2000EP-00200610.
XX
PR 26-FEB-1999; 99US-0122487P.
XX
PA (GEST) GENSET.
XX

PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
XX WPI; 2000-500381/45.
DR P-PSDB; AAG01621.
XX

PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS Claim 1; SEQ ID NO 1625; 7lpp + Sequence Listing; English.
XX

CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
CC derived from 30 different tissues. EST sequences usually correspond
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
CC often obtained for isolating cDNA sequences derived from the 5' ends of
CC mRNAs and even in those cases where longer cDNA sequences have been
CC obtained, the full 5' UTR is rarely included. 5' ESTs are derived from
CC mRNAs with intact 5' ends and can therefore be used to obtain full length
CC cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic,
CC gene therapy and chromosome mapping procedures. They are used to obtain
CC upstream regulatory sequences and to design expression and secretion

CC vectors
XX
SQ Sequence 409 BP; 94 A; 97 C; 127 G; 87 T; 0 U; 4 Other;
Query Match 3.4%; Score 76.8; DB 3; Length 409;
Best Local Similarity 56.5%; Pred. No. 7.3e-07;
Matches 160; Conservative 2; Mismatches 115; Indels 6; Gaps 1;
QY 313 TCCTCCAGTACATTGACCTCCATCAGGATGAATTTGTGCAGACGCTGAAGGAGTGGTGG 372
Db 133 TGTTTAAGTACATAGATGAAAATCAGGATCGCTACATTAAAGAAACTCGCAAAATGGGTGG 192
QY 373 CCATCGAGAGCGACTCTGTCCAGCCTGTGCCTCGCTTCAGACAAGAGCTCTTCAGAATGA 432
Db 193 CTATCCAGAGTGTGTCTGCGTGGCCGGAG-----AAGAGAGGCGAAATCAGGAGGATGA 246
QY 433 TGGCCGTGGCTGCGGACACGCTGCAGCGCCTGGGGGCCCGTGTGGCCTCGGTGGACATGG 492
Db 247 TGGAGTTGCTGCTGCAGATGTTAAGCAGTTGGGGGGCTCTGTGGAACTGGTGGATATCG 306
QY 493 GTCCCTCAGCAGCTGCCCCGATGGTCAGAGTCTTCCAATACCTCCCGTCATCCTGGCCGAAC 552
Db 307 GAAACAAGAGCTCCCTGATGGCTCGNAGATCCCGTCCCTCCTATTCTGMWCGGACGGC 366
QY 553 TGGGAGCGATCCCACGAAAGGCACCGTGTGCTTCTACGGCCA 595
Db 367 TGGWTCGGACCCACAGAGAAGACCGTGTGCATTACGGGCA 409

RESULT 126
AAC01626
ID AAC01626 standard; cDNA; 464 BP.
XX
AC AAC01626;
XX
DT 06-OCT-2000 (first entry)
XX
DE Human secreted protein 5' EST, SEQ ID NO: 1624.
XX
KW Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
KW gene therapy; chromosome mapping; ss.
XX
OS Homo sapiens.
XX
PN EP1033401-A2.
XX
PD 06-SEP-2000.
XX
PF 21-FEB-2000; 2000EP-00200610.
XX
PR 26-FEB-1999; 99US-0122487P.
XX
PA (GEST) GENSET.
XX

PI Dumas Milne Edwards J, Duclert A, Giordano J;
XX
XX WPI; 2000-500381/45.
DR P-PSDB; AAG01620.
XX
PT New nucleic acid that is a 5' expressed sequence tag (5' EST) for
PT obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for
PT diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX
PS Claim 1; SEQ ID NO 1624; 7lpp + Sequence Listing; English.
XX
CC The present sequence is one of a large number of 5' ESTs derived from
CC mRNAs encoding secreted proteins. An ORF has been identified within the
CC sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs
CC derived from 30 different tissues. EST sequences usually correspond
CC mainly to the 3' untranslated region (UTR) of the mRNA because they are
CC often obtained from oligo-dT primed cDNA libraries. Such ESTs are not
CC well suited for isolating cDNA sequences derived from the 5' ends of
CC mRNAs and even in those cases where longer cDNA sequences have been

Db 173 TTTATTTTAAATAAAGGCCATTGTTTTCACAGATGGGTTCCAAAAA 114
QY 2204 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db 113 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 75

RESULT 135
ADL37255/c
ID ADL37255 standard; DNA; 467 BP.
XX ADL37255;
AC ADL37255;
XX 20-MAY-2004 (first entry)
XX Human ovarian cancer DNA marker #11145.
DE Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX Homo sapiens.

XX WO200170979-A2.
XX 27-SEP-2001.
XX 21-MAR-2001; 2001WO-US009126.
XX 21-MAR-2000; 2000US-0191031P.
XX 25-MAY-2000; 2000US-0207124P.
XX 15-JUN-2000; 2000US-0211940P.
XX 07-JUL-2000; 2000US-0216820P.
XX 25-JUL-2000; 2000US-0220661P.
XX 21-DEC-2000; 2000US-0257672P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
PI WPI; 2001-611502/70.
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

PS Disclosure; SEQ ID NO 11145; 106pp; English.
XX The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent

CC time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. CC This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of CC the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 467 BP; 110 A; 31 C; 38 G; 198 T; 0 U; 90 Other;
Query Match 3.2%; Score 72; DB 5; Length 467;
Best Local Similarity 70.6%; Pred. No. 8.6e-06;
Matches 84; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2124 TTGCTTTACCACTCTTTCCTTTTATCTTATTAATAAATAATGTTGGTCTCCACCACGTGCT 2183
Db 196 TTTTAAAGANATTTTNTNAAAAAAAAAAAAAAAAANGGNNNGCCCNCCNT 137
QY 2184 CCACAAA 2242
Db 136 NNNAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAAAAAAAAAA 78

RESULT 136
ADI72106/c
ID ADI72106 standard; DNA; 467 BP.
XX AC ADI72106;
XX 20-MAY-2004 (first entry)
DE Human ovarian cancer DNA marker #4848.
XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
OS Homo sapiens.
XX WO200170979-A2.
XX 27-SEP-2001.
XX 21-MAR-2001; 2001WO-US009126.
XX 21-MAR-2000; 2000US-0191031P.
XX 25-MAY-2000; 2000US-0207124P.
XX 15-JUN-2000; 2000US-0211940P.
XX 07-JUL-2000; 2000US-0216820P.
XX 25-JUL-2000; 2000US-0220661P.
XX 21-DEC-2000; 2000US-0257672P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
PI WPI; 2001-611502/70.

XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.
PS Disclosure; SEQ ID NO 4848; 106pp; English.
XX The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of

RESULT 144	
ABV58017	
ID	ABV58017 standard; cDNA; 580 BP.
XX	
AC	ABV58017;
XX	
DT	13-SEP-2002 (first entry)
XX	
DE	Human prostate expression marker cDNA 58008.
XX	
KW	Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KW	pharmacogenomic marker; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200160860-A2.
XX	
PD	23-AUG-2001.
XX	
PF	20-FEB-2001; 2001WO-US005171.
XX	
PR	17-FEB-2000; 2000US-0183319P.
PR	16-MAR-2000; 2000US-0189862P.
PR	25-MAY-2000; 2000US-0207454P.
PR	09-JUN-2000; 2000US-0211314P.
PR	18-JUL-2000; 2000US-0219007P.
PR	13-DEC-2000; 2000US-0255281P.
XX	
PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX	
PI	Schlegel R, Endege WO, Monahan JE;
XX	
DR	WPI; 2001-662795/76.
XX	
PT	Novel isolated nucleic acid molecule associated with cancerous state of
PT	prostate cells and correlating with presence of prostate cancer, useful
PT	for detecting presence of prostate cancer, stage of prostate cancer.
XX	
PS	Claim 1; Page 11146-11147; 11750pp; English.
XX	
CC	The invention relates to an isolated nucleic acid molecule (I) comprising
CC	a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC	specification or its complement. (I) is useful for: (a) assessing whether
CC	a patient is afflicted with prostate cancer; (b) monitoring the efficacy
CC	progression of prostate cancer in a patient; (c) assessing the efficacy
CC	of a test compound to inhibit prostate cancer in a patient; (d) assessing
CC	the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC	(e) selecting a composition for inhibiting prostate cancer in a patient;
CC	(f) assessing the prostate cell carcinogenic potential of a compound; (g)
CC	determining whether prostate cancer has metastasized in a patient; (h)
CC	assessing the aggressiveness or indolence of prostate cancer in a patient
CC	; (I) is also useful as a pharmacodynamic or pharmacogenomic marker
XX	
SQ	Sequence 580 BP; 231 A; 129 C; 107 G; 112 T; 0 U; 1 Other;
Query Match 3.1%; Score 70.4; DB 5; Length 580;	
Best Local Similarity 76.1%; Pred. No. 2.1e-05;	
Matches 86; Conservative 0; Mismatches 27; Indels 0; Gaps 0;	
QY	2130 TACCACCTCTTCCCTTTATCTTATCTTATTAATAAAATGTTGGTCTCCACCACCTGCTCCCAA 2189
Db	65 TAACCTGGATCCTCTCTCTTATTAATAAGATTGCTGACAAAAA 124
QY	2190 AA 2242
Db	125 AA 177
RESULT 145	
AAL35667	
ID	AAL35667 standard; cDNA; 1095 BP.
XX	

AC	AAL35667;
XX	
DT	08-JAN-2002 (first entry)
XX	
DE	Human musculoskeletal system related polynucleotide SEQ ID NO 1009.
XX	
KW	Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW	antiallergic; hepatotropic; antidiabetic; antiinflammatory; antiulcer;
KW	vulnerary; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW	cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW	neurological disease; infection; human; secreted protein;
KW	musculoskeletal system; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200155367-A1.
XX	
PD	02-AUG-2001.
XX	
PF	17-JAN-2001; 2001WO-US001338.
XX	
PR	31-JAN-2000; 2000US-0179065P.
PR	04-FEB-2000; 2000US-0180628P.
PR	24-FEB-2000; 2000US-0184664P.
PR	02-MAR-2000; 2000US-0186350P.
PR	16-MAR-2000; 2000US-0189874P.
PR	17-MAR-2000; 2000US-0190076P.
PR	18-APR-2000; 2000US-0198123P.
PR	19-MAY-2000; 2000US-0205515P.
PR	07-JUN-2000; 2000US-0209467P.
PR	28-JUN-2000; 2000US-0214886P.
PR	30-JUN-2000; 2000US-0215135P.
PR	07-JUL-2000; 2000US-0216647P.
PR	07-JUL-2000; 2000US-0216880P.
PR	11-JUL-2000; 2000US-0217487P.
PR	11-JUL-2000; 2000US-0217496P.
PR	14-JUL-2000; 2000US-0218290P.
PR	26-JUL-2000; 2000US-0220963P.
PR	26-JUL-2000; 2000US-0220964P.
PR	14-AUG-2000; 2000US-0224518P.
PR	14-AUG-2000; 2000US-0224519P.
PR	14-AUG-2000; 2000US-0225213P.
PR	14-AUG-2000; 2000US-0225214P.
PR	14-AUG-2000; 2000US-0225266P.
PR	14-AUG-2000; 2000US-0225267P.
PR	14-AUG-2000; 2000US-0225268P.
PR	14-AUG-2000; 2000US-0225270P.
PR	14-AUG-2000; 2000US-0225447P.
PR	14-AUG-2000; 2000US-0225757P.
PR	14-AUG-2000; 2000US-0225758P.
PR	14-AUG-2000; 2000US-0225759P.
PR	18-AUG-2000; 2000US-0226279P.
PR	22-AUG-2000; 2000US-0226681P.
PR	22-AUG-2000; 2000US-0226868P.
PR	22-AUG-2000; 2000US-0227182P.
PR	23-AUG-2000; 2000US-0227009P.
PR	30-AUG-2000; 2000US-0228924P.
PR	01-SEP-2000; 2000US-0229287P.
PR	01-SEP-2000; 2000US-0229343P.
PR	01-SEP-2000; 2000US-0229344P.
PR	01-SEP-2000; 2000US-0229345P.
PR	05-SEP-2000; 2000US-0229509P.
PR	05-SEP-2000; 2000US-0229513P.
PR	06-SEP-2000; 2000US-0230437P.
PR	06-SEP-2000; 2000US-0230438P.
PR	08-SEP-2000; 2000US-0231242P.
PR	08-SEP-2000; 2000US-0231243P.
PR	08-SEP-2000; 2000US-0231244P.
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PR	08-SEP-2000; 2000US-0231414P.
PR	08-SEP-2000; 2000US-0232080P.
PR	08-SEP-2000; 2000US-0232081P.
PR	12-SEP-2000; 2000US-0231968P.


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RESULT 146
AAI62755
ID AAI62755 standard; cDNA; 1095 BP.
XX
AC AAI62755;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human cDNA SEQ ID NO 14.
XX
KW Human; nootropic; neuroprotective; cytostatic; dermatological; virucide;
KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
KW antiparkinsonian; antiskling; antianaemic; antiarthritic; cancer;
KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;
KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ss.
XX
OS Homo sapiens.
XX
PN WO200155449-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US001346.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUL-2000; 2000US-0216880P.
PR 14-JUL-2000; 2000US-0218290P.
PR 14-AUG-2000; 2000US-0225447P.
PR 01-SEP-2000; 2000US-0229343P.
PR 06-SEP-2000; 2000US-0230437P.
PR 08-SEP-2000; 2000US-0231243P.
PR 25-SEP-2000; 2000US-0234997P.
PR 29-SEP-2000; 2000US-0236367P.
PR 13-OCT-2000; 2000US-0239937P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
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PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
DR WPI; 2001-476225/51.
DR P-PSDB; AAM42350.
XX
PT Novel plasma membrane associated proteins useful for diagnosing,
PT treating, preventing and/or prognosing disorders related to the proteins,
PT including cancer, immune response and neuronal disorders.
XX
PS Claim 1; SEQ ID NO 14; 532pp + Sequence Listing; English.
PS The invention relates to novel genes (AAI62752-AAI62961) and-proteins
CC
```

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CC (AAM42347-AAM42415) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in
CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 1095 BP; 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;

Query Match 3.1%; Score 70.4; DB 4; Length 1095;
Best Local Similarity 53.1%; Pred. No. 2.5e-05;
Matches 171; Conservative 0; Mismatches 148; Indels 3; Gaps 1;

QY 1920 TCCCCCAGTGCACACCTTCCTCAAGTCATAGCTGCTTGCGAGCAACTTGATTTCCCAAGT 1979
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 1980 CCTGTGCAATAGCCCCCAGGATTGGATTCTCTTCCAACTTTTAGCATATCTCCAACTTGC 2039
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2040 AATTGATTGGCATAATCACTCCGGTTTGTCTTCTAGGTCTCTCAAGTCTCGTGACACAT 2099
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2100 AATCATTTCCATCCAATGATCGCCTTTTGCTTTTACCACCTCTTTCTTTTATCTTATAATAA 2159
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2160 AAATGTTGGTCTCCACCACCTGNCCTCCCAAAAAA AAAAAAAAAAAAAAAAAAAAAA 2219
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 2220 AAAAAA AAAAAAAAAAAAAAAAAAAAAA 2241
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 147
ABX58655
ID ABX58655 standard; cDNA; 1095 BP.
XX
AC ABX58655;
XX
DT 26-FEB-2003 (first entry)
XX
DE cDNA encoding novel human musculoskeletal system antigen #999.
XX
KW Gene; ss; musculoskeletal system antigen; cancer; metastasis;
KW re-vascularisation; thrombosis; arteriosclerosis; mineral content;
KW cardiovascular condition; wound; injury; burn; angiogenesis; ulcer;
KW post-operative tissue repair; limb regeneration; neuronal growth;
KW neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
KW AIDS-related complex; chondrocyte growth; bone regeneration;
KW periodontal regeneration; tissue transport; bone graft; skin aging;
KW keratinocyte growth; hair loss; melanocyte growth; cell proliferation;
KW cell growth; organ transplant; cell differentiation; body height; weight;
KW hair colour; eye colour; skin; percentage of adipose tissue;
KW pigmentation; cosmetic surgery; metabolism; biorhythm; cardiac rhythm;
KW depression; tendency for violence; pain; reproductive capability;
KW hormone level; endocrine level; appetite; libido; memory; stress;
KW storage capability; fat content; lipid content; protein content;
KW carbohydrate content; vitamin content; cofactor content;
```

KW nutritional component.
 XX Homo sapiens.
 OS
 XX
 PN US2002147140-A1.
 XX
 PD 10-OCT-2002.
 XX
 PF 17-JAN-2001; 2001US-00764877.
 XX
 PR 31-JAN-2000; 2000US-0179065P.
 PR 04-FEB-2000; 2000US-0180628P.
 PR 28-JUN-2000; 2000US-0214886P.
 PR 07-JUL-2000; 2000US-0216647P.
 PR 07-JUL-2000; 2000US-0216880P.
 PR 11-JUL-2000; 2000US-0217487P.
 PR 11-JUL-2000; 2000US-0217496P.
 PR 14-JUL-2000; 2000US-0218290P.
 PR 26-JUL-2000; 2000US-0220963P.
 PR 26-JUL-2000; 2000US-0220964P.
 PR 14-AUG-2000; 2000US-0224518P.
 PR 14-AUG-2000; 2000US-0224519P.
 PR 14-AUG-2000; 2000US-0225267P.
 PR 14-AUG-2000; 2000US-0225268P.
 PR 14-AUG-2000; 2000US-0225270P.
 PR 14-AUG-2000; 2000US-0225447P.
 PR 14-AUG-2000; 2000US-0225757P.
 PR 14-AUG-2000; 2000US-0225758P.
 PR 22-AUG-2000; 2000US-0226868P.
 PR 30-AUG-2000; 2000US-0228924P.
 PR 01-SEP-2000; 2000US-0229287P.
 PR 01-SEP-2000; 2000US-0229343P.
 PR 01-SEP-2000; 2000US-0229344P.
 PR 01-SEP-2000; 2000US-0229345P.
 PR 05-SEP-2000; 2000US-0229509P.
 PR 05-SEP-2000; 2000US-0229513P.
 PR 08-SEP-2000; 2000US-0231413P.
 PR 21-SEP-2000; 2000US-0234223P.
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 PR 27-SEP-2000; 2000US-0235834P.
 PR 29-SEP-2000; 2000US-0236327P.
 PR 29-SEP-2000; 2000US-0236367P.
 PR 29-SEP-2000; 2000US-0236368P.
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 PR 02-OCT-2000; 2000US-0236802P.
 PR 02-OCT-2000; 2000US-0237037P.
 PR 02-OCT-2000; 2000US-0237038P.
 PR 02-OCT-2000; 2000US-0237039P.
 PR 02-OCT-2000; 2000US-0237040P.
 PR 13-OCT-2000; 2000US-0239935P.
 PR 20-OCT-2000; 2000US-0240960P.
 PR 20-OCT-2000; 2000US-0241785P.
 PR 20-OCT-2000; 2000US-0241809P.
 PR 01-NOV-2000; 2000US-0244617P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 08-DEC-2000; 2000US-0251856P.
 PR 08-DEC-2000; 2000US-0251868P.
 PR 08-DEC-2000; 2000US-0251869P.
 XX
 PA (ROSE/) ROSEN C A.
 PA (RUBE/) RUBEN S M.
 PA (BARA/) BARASH S C.
 XX
 PI Rosen CA, Ruben SM, Barash SC;
 XX
 DR WPI; 2003-128199/12.
 DR P-PSDB; ABU13379.
 XX
 PT Isolated nucleic acid molecules encoding musculoskeletal system
 XX associated polypeptides, useful for detecting disorders, e.g. cancer.

Claim 1; SEQ ID NO 1009; 321pp; English.

The invention describes an isolated nucleic acid molecule comprising a sequence encoding musculoskeletal system associated polypeptides useful for detecting disorders, e.g., cancer or cancer metastases, in animals or humans. The nucleic acid: stimulates re-vascularisation of ischaemic tissues associated with conditions such as thrombosis, arteriosclerosis, and other cardiovascular conditions; treats wounds due to injuries, burns, post-operative tissue repair, and ulcers; stimulates angiogenesis and limb regeneration; stimulates neuronal growth; can treat and prevent neuronal damage occurring in certain disorders or neurodegenerative conditions, such as, Alzheimer's disease, Parkinson's disease, and AIDS-related complex; stimulates chondrocyte growth, thus they can be used to enhance bone and periodontal regeneration and aid in tissue transports or bone grafts; prevents skin aging due to sunburn by stimulating keratinocyte growth; prevents hair loss, since FGF family members activate hair-forming cells and promotes melanocyte growth; stimulates growth and differentiation of hematopoietic cells and bone marrow cells when used in combination with other cytokines; maintains organs before transplantation or for supporting cell culture of primary tissues; induces tissue of mesodermal origin to differentiate in early embryos; increases or decreases the differentiation or proliferation of embryonic stem cells, besides, haematopoietic lineage; modulates mammalian characteristics, such as, body height, weight, hair colour, eye colour, skin, percentage of adipose tissue, pigmentation, size, and shape (e.g., cosmetic surgery); modulates mammalian metabolism; changes mammal's metal state or physical state by influencing biorhythms, cardiac rhythms, depression, tendency for violence, tolerance for pain, reproductive capabilities, hormonal or endocrine levels, appetite, libido, memory, or stress; increases or decreases storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional components. This sequence encodes a novel human musculoskeletal system antigen. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the US patent office at

Sequence 1095 BP: 254 A; 291 C; 221 G; 316 T; 0 U; 13 Other;

Query Match 3.1%; Score 70.4; DB 8; Length 1095;
Best Local Similarity 53.1%; Pred. No. 2.5e-05;
Matches 171; Conservative 0; Mismatches 148; Indels 3

QY	1920	TCCCCCACTGCACACACTTTCCTCAAGTCATAGCTGCTTGCGAGCAACTTGATTGCCCAAAGT	1979
Db	771	TCCCTGCCTGCACACACTCCTCATGTCTTTCCATCTCCTCCGTGCTCTTTCTGTCATCT	830
QY	1980	CCTGTGCAATAGCCCCAGGATTGGATTCTTCCAACCCTTTTAGCATATCTCCAACCTTGC	2039
Db	831	CTTTGTAGGAGCGGTGGTCTTCTCCAGAAGAACCTGAATGCACAACCTGFA--CTCA	887
QY	2040	AATTTGATTGGCATAATCACTCCGGTTTGCTTTCTAGGTCTCTCAAGTGCTCGTGACACAT	2099
Db	888	GATTTCTGTCTTAATCCCCTACTCTATTCTCTCAGTCCCCCTAGGTCATCTTGGTAAG	947
QY	2100	AATCATTTCCATCCAAATGATCGCCCTTTGCTTTTACCACCTCTTTCCTTTATCTTATTAATAA	2159
Db	948	AACCATGTCTTTAAATATTAGGAATGTGTTGGTTGGACCTNTCTCCTGCTTCCTGAAAT	1007
QY	2160	AAATGTTGGTCTCCACCACCTGNCTCCCAAAAAAAAAAAAAAAAAAAAAA	2219
Db	1008	AAACACTGGTGCCCAACCAAAAAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAA	1067
QY	2220	AAAAAAAAAAAAAAAAAAAAA	2241
Db	1068	AAAAAAAAAAAAAAAAAAAAA	1089

RESULT 148
ADJ28382
ID ADJ28382 standard; DNA; 1095 BP.
XX
AC ADJ28382;

Isolated nucleic acid molecules encoding musculoskeletal system associated polypeptides, useful for detecting disorders, e.g. cancer.

XX
DT 20-MAY-2004 (first entry)
DE Human musculoskeletal system-associated contig DNA - SEQ ID 1009.
XX musculoskeletal system; cytostatic; osteopathic; cancer; osteoporosis;
KW gene therapy; vaccine; human; ds; gene.
XX Homo sapiens.
OS
XX US2004009488-A1.
PN
XX
PD 15-JAN-2004.
XX
PF 13-SEP-2002; 2002US-00242515.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
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PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
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PR 14-AUG-2000; 2000US-0225266P.
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PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
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PR 22-AUG-2000; 2000US-0227182P.
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PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
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PR 05-SEP-2000; 2000US-0229345P.
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PR 08-NOV-2000; 2000US-0246476P.
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PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
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PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
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PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.
PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.

Db 1333 GCTCCTTTGAGAACCCCTCCCCACCTACCCCTTCCTTCCTCTTTATCTCTCCACATTGT 1392

QY 2147 ATCTTATTATAAATGTTGGTCTCCACCACCTGCTCCCAAAAAA 2206

Db 1393 CTGTCTTAATATAGAACTTGGTCTTAAAAA 1452

QY 2207 AAAAAA 2242

Db 1453 AAAAAA 1488

RESULT 155
AAA61288

ID AAA61288 standard; DNA; 1580 BP.

XX

AC AAA61288;

XX

DT 18-OCT-2000 (first entry)

XX

DE Human secreted protein gene 29 clone HWBDI30.

XX

KW Human; secreted protein; fusion protein; gene therapy; protein therapy; diagnosis; tissue; cancer; tumour; AIDS; autoimmune disorder; allergy; cardiovascular; viral; bacterial; fungal infection; immunosuppressive; ds.

XX

OS Homo sapiens.

XX

PN WO200029422-A1.

XX

PD 25-MAY-2000.

XX

PF 09-NOV-1999; 99WO-US026409.

XX

PR 12-NOV-1998; 98US-0108207P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Ni J, Ruben SM, Rosen CA, Ebner R, Florence KA, Young PE;

PI Birse CE, Carter KC, Komatsoulis G;

XX

DR WPI; 2000-387729/33.

XX

PT Novel human secreted proteins useful for diagnosing, preventing, treating and ameliorating a medical condition e.g. cardiovascular disease.

XX

PS Claim 1; Page 247; 295pp; English.

XX

CC The present sequence represents a nucleic acid molecule which encodes a secreted human protein. The gene number and the clone it was derived from are given in the descriptor line. The invention relates to 31 novel genes and their fragments (nucleic acid sequences: AAA61260-A61293; amino acid sequences AAB12301-B12371) which are useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. Also pathological conditions can be diagnosed by determining the amount of the new polypeptides in a sample or by determining the presence of mutations in the new polynucleotides. Specific uses are described for each of the 31 polynucleotides, based on which tissues they are most highly expressed in and include products for the diagnosis or treatment of cancer.

CC tumours, AIDS, autoimmune disorders, allergy, cardiovascular disorders, viral, bacterial and fungal infection. The genes are used to generate fusion proteins by linking to the gene a human immunoglobulin portion (AAA61251) for increasing stability of the fused protein as compared to the secreted protein only

XX

SQ Sequence 1580 BP; 499 A; 251 C; 295 G; 535 T; 0 U; 0 Other;

Query Match 3.1%; Score 70.2; DB 3; Length 1580;

Best Local Similarity 75.0%; Pred. No. 3.1e-05;

Matches 87; Conservative 0; Mismatches 29; Indels 0; Gaps 0;

QY 2127 CTTTACCACCTCTTCCTTTTATCTTATTAATAAAGTTGGTCTCCACCACCTGCTCCC 2186

Db 1437 CTTTGTCAATTTCCCATTTTATTTTAAATAAATATATGATCTAAAAAGCCAAAAA 1496

QY 2187 AAAAAA 2242

Db 1497 AAAAAA 1552

RESULT 156
ABV04355/C

ID ABV04355 standard; cDNA; 381 BP.

XX

AC ABV04355;

XX

DT 13-SEP-2002 (first entry)

XX

DE Human prostate expression marker cDNA 4346.

XX

KW Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker; pharmacogenomic marker; gene; ss.

XX

OS Homo sapiens.

XX

PN WO200160860-A2.

XX

PD 23-AUG-2001.

XX

PF 20-FEB-2001; 2001WO-US005171.

XX

PR 17-FEB-2000; 2000US-0183319P.

PR 16-MAR-2000; 2000US-0189862P.

PR 25-MAY-2000; 2000US-0207454P.

PR 09-JUN-2000; 2000US-0211314P.

PR 18-JUL-2000; 2000US-0219007P.

PR 13-DEC-2000; 2000US-0255281P.

XX

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX

PI Schlegel R, Endege WO, Monahan JE;

XX

DR WPI; 2001-662795/76.

XX

PT Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.

XX

PS Claim 1; Page 755-756; 11750pp; English.

XX

CC The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the specification or its complement. (I) is useful for: (a) assessing whether a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient; (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker

XX

SQ Sequence 381 BP; 85 A; 48 C; 43 G; 130 T; 0 U; 75 Other;

Query Match 3.1%; Score 70; DB 5; Length 381;

Best Local Similarity 46.5%; Pred. No. 2.2e-05;

Matches 112; Conservative 0; Mismatches 129; Indels 0; Gaps 0;

QY 2002 GGATTCCTTCCACCTTTTAGCATATCTCCAACCTTGCAATTTGATTGGCATAATCACTC 2061

Db 301 GGGNTTTTTTTTAAATTTNGNCITTTTGGNNGGTTTNTTTTTTTGGGGGNAAGNCC 242

QY 2062 CGGTTTGCTTTCTAGTCCCTCAAGTGCCTGCGACACATAATCATTCCTCCATGATCGC 2121

Db 241 CNGNTTTTTTTNNNNNTANAANNTTTTTTNCNANNNTTTTTTTTNCNCCNNNNNC 182

the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published pct sequences.

Sequence 425 BP; 103 A; 64 C; 96 G; 162 T; 0 U; 0 Other;

```

Query Match      3.1%;      Score 69.8;  DB 5;      Length 425;
Best Local Similarity 73.0%;      Pred. No. 2.5e-05;
Matches 89; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

```

[illegible]

RESULT 159
ADI72087/C
ID ADI72087 standard; DNA: 491 BP.

XX	20-MAY-2004 (first entry)
DT	Human ovarian cancer DNA marker #4829.
XX	Human ovarian cancer; ds; tumour; cytostatic; DNA marker.
DE	
XX	
XX	
KW	

encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published/pct sequences.

Sequence 491 BP; 119 A; 56 C; 73 G; 163 T; 0 U; 80 Other;

```
Query Match      3.1%; Score 69.8; DB 5; Length 491;
Best Local Similarity 70.5%; Pred. No. 2.6e-05;
Matches 86; Conservative 0; Mismatches 36; Indels 0; Gaps 0;
```

Qy	2121	CCTTTGCTTTACCACTCTTTCC	TTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTG	21800
Db	169	CANTNTNTTTTTTTTTTTTTTTTT	TTTTTNNAAAAAANTTTTTTTTNC	110
Qy	2181	NCCTCCAAAAA	AAAAA	22400
Db	109	AAAAA	AAAAA	50
Qy	2241	AA	2242	
Db	49	AA	48	

RESULT 160
ADL37236/c
ID ADL37236 standard; DNA; 491 BP.

Db 245 CCCTTTGTTTTTTTTTTTATAGGGGGGGTTTCAATTATTTTTTTCATTCCCT 186
QY 2117 ATGCGCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAAAGTTGGTCTCCACC 2176
Db 185 TTGGCCTTGAAAAACCCCTTTTTTTTTTTTAAAAAATAAAAAAAAAAAAAAAA 126
QY 2177 ACTGNCTCCCAA 2236
Db 125 AA 66
QY 2237 AAAAAA 2242
Db 65 AAAAAA 60

RESULT 162
ACN48235/c
ID ACN48235 standard; cDNA; 560 BP.
XX AC ACN48235;
XX 02-DEC-2004 (first entry)
DE Cotton primed seed EST Clone ID: LIB3825-021-Q1-N6-B5, SEQ:3016.
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; seed;
KW variety DP50B; library LIB3825; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX Gossypium hirsutum.
OS
XX US2004123340-A1.
PN
XX 24-JUN-2004.
PD
XX 12-DEC-2001; 2001US-00021323.
PF
XX 14-DEC-2000; 2000US-0255619P.
PR
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
DR WPI; 2004-479808/45.
XX

PT New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
PS Claim 1; SEQ ID NO 3016; 34pp; English.
XX
CC The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining

CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety DP50B primed seed cDNA library (LIB3825). The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format directly from the US patent office at
CC seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
SQ Sequence 560 BP; 255 A; 45 C; 71 G; 189 T; 0 U; 0 Other;
Query Match 3.1%; Score 69.8; DB 13; Length 560;
Best Local Similarity 70.8%; Pred. No. 2.8e-05;
Matches 92; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
QY 2113 AATGATCGCCTTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAAATGTTGGTCTC 2172
Db 212 AAAAAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCACAATTTTTTTTTC 153
QY 2173 CACCACTGNCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2232
Db 152 CCCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 93
QY 2233 AAAAAAAAAA 2242
Db 92 AAAAAAAAAA 83

RESULT 163
AAC59834
ID AAC59834 standard; DNA; 1792 BP.
XX
AC AAC59834;
XX
DT 26-JAN-2001 (first entry)
XX
DE Human secreted protein encoding DNA clone vq19 1.
XX
KW Secreted protein; human; autoimmune disorder; multiple sclerosis; ulcer;
KW systemic lupus erythematosus; rheumatoid arthritis; anaemia; stroke;
KW haematopoiesis regulation; tissue regrowth; wound healing; haemophilia;
KW Alzheimer's disease; Parkinson's disease; Shy-drager syndrome; cancer;
KW contraceptive; infection; growth inhibition; hyperproliferative disorder;
KW psoriasis; ds.
XX
OS Homo sapiens.
XX
PN WO200055375-A1.
XX
PD 21-SEP-2000.
XX
PF 17-MAR-2000; 2000WO-US007285.
XX
PR 17-MAR-1999; 99US-0124808P.
PR 17-MAR-1999; 99US-0124916P.
PR 17-AUG-1999; 99US-0149639P.
PR 01-OCT-1999; 99US-0157247P.
PR 29-NOV-1999; 99US-0167824P.
PR 15-FEB-2000; 2000US-0182711P.
XX
PA (ALPH-) ALPHAGENE INC.
XX
PI Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX
DR WPI; 2000-638211/61.
DR P-PSDB; AAB34733.
XX


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18-JUL-2001; 2001US-0306220P.
(MILL-) MILLENNIUM PHARM INC.
Lillie J, Xu Y, Wang Y, Steinmann K;
WPI; 2003-787014/74.
Novel isolated polypeptide associated with breast cancer, useful for
detecting presence of polypeptide in sample, as a marker for breast
cancer.
Disclosure; SEQ ID NO 6007; 36pp; English.
The invention relates to an isolated polypeptide (I) associated with
breast cancer which is encoded by a nucleic acid molecule comprising a
nucleotide sequence (SI). Further disclosed is an antibody that binds to
the polypeptide of the invention. The activity of the polypeptide of the
invention may be described as cytostatic. The antibody is useful for
detecting the presence of (I) in a sample. Nucleic acid molecules of the
invention are useful in the detection of breast tumours. (I) is useful as
a marker for breast cancer and in breast cancer therapy. Sequences given
in records ACN78851-ACN92934 represent nucleic acid markers associated
with breast cancer. Note: The sequence listing does not form part of the
specification but may be obtained in electronic format from the USPTO web
site at seqdata.uspto.gov/sequence.html?DocID=20030099974
Sequence 421 BP; 123 A; 51 C; 32 G; 159 T; 0 U; 56 Other;
Query Match 3.1%; Score 69.4; DB 11; Length 421;
Best Local Similarity 53.1%; Pred. No. 3.1e-05;
Matches 103; Conservative 0; Mismatches 91; Indels 0; Gaps 0;
QY 2049 GGCATAATCACTCCGGTTTGCTTTCTAGGTCTCTCAAGTGTCTGACACATAATCATTC 2108
Db 310 GGCCNNCCNATTTTTTTTNNNTNNNTTTTTTTTGGGNTNGGGNNNANNATTTTTTT 251
QY 2109 ATCCAATGATCGCCTTTGCTTTTACCACCTCTTTCCCTTTATCTTATTAATAAAATGTGG 2168
Db 250 TTTTTTTTCCNAATNNNNNGGNTTTTTTTTTTNNNTTNCNNAAAAAAGGNTTT 191
QY 2169 TCTCCACCACCTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2228
Db 190 TTTTNNCCNTTNGGNAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 131
QY 2229 AAAAAAATAAAAAA 2242
Db 130 AAAAAAATAAAAAA 117
RESULT 166
ACN62215
ID ACN62215 standard; cDNA; 516 BP.
ACN62215;
XX
XX
XX 02-DEC-2004 (first entry)
DE Cotton gynoeceum tissue EST Clone ID: LIB3829-026-Q6-N6-F3, SEQ:16996.
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceum;
KW variety Nucotton33B; library LIB3829; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX Gossypium hirsutum.
OS
XX US2004123340-A1.
PN
XX 24-JUN-2004.
PD
XX 12-DEC-2001; 2001US-00021323.
PF
XX
XX

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14-DEC-2000; 2000US-0255619P.
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
XX Claim 1; SEQ ID NO 16996; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety Nucotton33B gynoecium tissue cDNA library (LIB3829). The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
XX Sequence 516 BP; 325 A; 23 C; 50 G; 118 T; 0 U; 0 Other;
SQ
Query Match 3.1%; Score 69.4; DB 13; Length 516;
Best Local Similarity 73.3%; Pred. No. 3.3e-05;
Matches 88; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
QY . 2123 TTTCCTTTACCACTCTTTCTTTTATCTTATTAATAAAATGTTGCTCTCCACCACTGNC 2182
Db ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
65 TTTTTTTTAAATTTTTTTTTTTTTTTTAAATTAATAAAAGGGGGGCCCCCCAAA 124
QY 2183 TCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db | ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
125 ACGAAAAAAAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 184
RESULT 167
ID ACN58977/c
XX ACN58977 standard; cDNA; 563 BP.
XX ACN58977;
XX
XX 02-DEC-2004 (first entry)
XX
XX Cotton gynoecium tissue EST Clone ID: LIB3829-014-Q6-N6-C12 SEQ:13758.

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XX Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceium; 2242
KW variety Nucotton33B; library LIB3829; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX Gossypium hirsutum.
OS ACN56816/c
XX ID ACN56816 standard; cDNA; 543 BP.
PN XX
XX AC ACN56816;
PD XX
XX DT 02-DEC-2004 (first entry)
XX DE Cotton gynoeceium tissue EST Clone ID: LIB3829-002-Q1-N6-H10, SEQ:11597.
PF XX
PR 12-DEC-2001; 2001US-00021323.
XX 14-DEC-2000; 2000US-0255619P.
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI WPI; 2004-479808/45.
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX Claim 1; SEQ ID NO 13758; 34pp; English.
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX SQ Sequence 563 BP; 207 A; 64 C; 115 G; 177 T; 0 U; 0 Other;
Query Match 3.1%; Score 69.4; DB 13; Length 563;
Best Local Similarity 73.3%; Pred. No. 3.4e-05;
Matches 88; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
2123 TTGCTTTACCACTCTTCCTTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTGNC 2182
182 TTTTTTTAAATTTTTCCTTTTTTTTCGAAAAAAAATAAAAAA 123

QY 2183 TCCCAA 2242
Db 122 ACCCCAAA 63
RESULT 168
ACN56816/c
ID ACN56816 standard; cDNA; 543 BP.
XX XX
AC ACN56816;
XX XX
DT 02-DEC-2004 (first entry)
XX DE Cotton gynoeceium tissue EST Clone ID: LIB3829-002-Q1-N6-H10, SEQ:11597.
XX KW Cotton; plant; EST; expressed sequence tag; transgenic plant; gynoeceium;
KW variety Nucotton33B; library LIB3829; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX Gossypium hirsutum.
OS US2004123340-A1.
XX PN
XX 24-JUN-2004.
PD XX
XX PF 12-DEC-2001; 2001US-00021323.
XX PR 14-DEC-2000; 2000US-0255619P.
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI WPI; 2004-479808/45.
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX Claim 1; SEQ ID NO 11597; 34pp; English.
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoeceium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX SQ Sequence 563 BP; 207 A; 64 C; 115 G; 177 T; 0 U; 0 Other;
Query Match 3.1%; Score 69.4; DB 13; Length 563;
Best Local Similarity 73.3%; Pred. No. 3.4e-05;
Matches 88; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
2123 TTGCTTTACCACTCTTCCTTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTGNC 2182
182 TTTTTTTAAATTTTTCCTTTTTTTTCGAAAAAAAATAAAAAA 123

QY 2092 TGACACATAATCATTCATCCATGATCGCCTTTGCTTTTACCACCTCTTTCCCTTTTATCTT 2151
Db 261 NTTTTTTTTTNNNTTTTNCCTCCCCCCCCCNNTTTTNTTTTTTTTTTTTNTANTNC 202
QY 2152 ATTAATAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2211
Db 201 NNNAAAAAANNTTTTTTTNNNNNAAAAA 142
QY 2212 AAAAAA 2242
Db 141 AAAAAA 111

RESULT 171
ADI70087/c
ID ADI70087 standard; DNA; 392 BP.
XX
AC ADI70087;
XX
DT 20-MAY-2004 (first entry)
DE Human ovarian cancer DNA marker #2829.
XX
KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX
OS Homo sapiens.
XX
PN WO200170979-A2.
XX
PD 27-SEP-2001.
XX
PF 21-MAR-2001; 2001WO-US009126.
XX
PR 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Lee J, Lillie J;
XX
WPI; 2001-611502/70.

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

Disclosure; SEQ ID NO 2829; 106pp; English.

The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed

CC polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 392 BP; 56 A; 34 C; 59 G; 152 T; 0 U; 91 Other;
Query Match 3.1%; Score 68.8; DB 5; Length 392;
Best Local Similarity 71.2%; Pred. No. 4.1e-05;
Matches 79; Conservative 0; Mismatches 32; Indels 0; Gaps 0;

QY 2132 CCACCTCTTCCCTTTATCTTATTATAAAATGTTGGTCTCCACCACTGCTCCCAAAA 2191
Db 186 CCCNNTTTTTTTTNCNTTTTAAANAANNNTNNNCCNAAAAA 127
QY 2192 AAAAAA 2242
Db 126 AAAAAA 76

RESULT 172
ADI76417/c
ID ADI76417 standard; DNA; 392 BP.
XX
AC ADI76417;
XX
DT 20-MAY-2004 (first entry)
DE Human ovarian cancer DNA marker #9159.
XX
KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX
OS Homo sapiens.
XX
PN WO200170979-A2.
XX
PD 27-SEP-2001.
XX
PF 21-MAR-2001; 2001WO-US009126.
XX
PR 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Lee J, Lillie J;
XX
WPI; 2001-611502/70.

Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.

Disclosure; SEQ ID NO 9159; 106pp; English.

The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene

CC corresponding to a marker of the invention and a method of treating a
CC patient afflicted with ovarian cancer comprising providing to cells of
CC the patient an antisense oligonucleotide complementary to a marker of the
CC invention. The markers are useful for assessing if a patient is afflicted
CC with ovarian cancer, which involves comparing the level of expression of
CC a marker in a patient sample and a normal level of expression of the
CC marker in a control non-ovarian cancer sample. A difference between the
CC expression levels indicates ovarian cancer. The level of expression of a
CC marker corresponds to a secreted protein or to a transcribed
CC polynucleotide or its portion. The level of expression of the marker is
CC assessed by detecting the presence in the sample, a protein or protein
CC fragment corresponding to the marker. The presence of protein or protein
CC fragment is detected using an antibody that specifically binds with the
CC protein or protein fragment. Alternatively, the level of expression of
CC the marker is assessed by detecting the presence of a transcribed
CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer in a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

SQ Sequence 392 BP; 56 A; 34 C; 59 G; 152 T; 0 U; 91 Other;

Query Match 3.1%; Score 68.8; DB 5; Length 392;
Best Local Similarity 71.2%; Pred. No. 4.1e-05;
Matches 79; Conservative 0; Mismatches 32; Indels 0; Gaps 0;
QY 2132 CCACTCTTCCTTTATCTTATTATAAATAATGTTGGTCTCCACCACTGCTCCCAAAA 2191
Db 186 CCCNNTTTTITTTTNCNTTTTAAANAANNNTNNCCNAAAAA 127
QY 2192 AAAAAA 2242
Db 126 AAAAAA 76

RESULT 173
ABK72068
ID ABK72068 standard; cDNA; 963 BP.
XX
AC ABK72068;
XX
DT 13-AUG-2002 (first entry)
XX
DE Human cDNA encoding ovarian antigen #27.
XX
KW Human; ss; ovarian antigen; gene; ovary disorder; breast disorder;
KW neoplastic disorder; cancer; infectious disease; inflammatory disease;
KW reproductive system disorder; autoimmune disorder; Alzheimer's disease;
KW blood-related disorder; hyperproliferative disorder; hair loss;
KW urinary system disorder; cardiovascular disorder; arrhythmia;
KW respiratory disorder; musculoskeletal system disorder;
KW neural activity disorder; neurological disorder; endocrine disorder;
KW gastrointestinal disorder; liver disorder; pancreatic disorder;
KW gall bladder disorder; large intestine disorder; developmental disorder;
KW inherited disorder; wound healing; skin aging; food additive;
preservative.

XX Homo sapiens.
OS
XX WO200155329-A2.
PN
XX
XX
PD 02-AUG-2001.
XX
XX 17-JAN-2001; 2001WO-US001360.
PF
XX

PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 07-JUN-2000; 2000US-0209467P.
PR 14-SEP-2000; 2000US-0232398P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251990P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
PA
XX Rosen CA, Barash SC, Ruben SM;
PI
XX WPI; 2001-476195/51.
DR P-PSDB; ABG60265.
DR
XX
XX Novel isolated human ovarian related polypeptide useful for
PT diagnosis/treatment of disorders of ovary and breast such as neoplastic
PT disorders, infectious diseases, inflammatory diseases, and reproductive
PT disorders.
XX
PS Claim 1; SEQ ID NO 37; 524pp; English.

CC The invention relates to isolated ovarian related polypeptide (ovarian
CC antigen) comprising a sequence at least 90% identical to a sequence
CC selected from a polypeptide fragment, domain, epitope or full length
CC protein of a sequence (S1) appearing as ABG60239-ABG60296 having
CC biological activity, or a variant, allelic variant or species homologue
CC of S1. Also included are the cDNA clones encoding the proteins of S1. S1,
CC an anti-S1 antibody and the cDNA are useful for diagnosing, preventing,
CC treating or ameliorating a medical condition in mammalian subject
CC especially diseases and/or disorders of the ovary and/or breast such as
CC neoplastic disorders (such as ovarian Krukenberg tumour and cancer),
CC infectious diseases (e.g., mastitis, oophoritis), inflammatory diseases
CC (e.g., abscesses), reproductive system disorders (Paget's disease),
CC autoimmune disorders (systemic lupus erythematosus, rheumatoid
CC arthritis), blood-related disorders (sickle cell anaemia),
CC hyperproliferative disorders, urinary system disorders
CC (glomerulonephritis), cardiovascular disorders (arrhythmias), respiratory
CC disorders, musculoskeletal system disorders, neural activity and
CC neurological disorders (Alzheimer's disease and Parkinson's disease),
CC endocrine disorders (Addison's disease), gastrointestinal disorders
CC (inflammatory disorders), liver disorders (biliary liver cirrhosis),
CC pancreatic and gall bladder disorders, diseases of the large intestine,
CC developmental and inherited disorders, diseases at the cellular level,
CC and wound healing and epithelial cell proliferation. They are also useful
CC to prevent skin aging, for preventing hair loss, to maintain organs
CC before transplantation or for supporting cell culture of primary tissues,
CC to modulate mammalian characteristics such as body height, to modulate
CC mammalian metabolism, to change a mammal's mental or physical state, and
CC as food additive or preservative. The present sequence is a cDNA encoding
CC an S1 protein

SQ Sequence 963 BP; 277 A; 264 C; 299 G; 123 T; 0 U; 0 Other;
Query Match 3.1%; Score 68.8; DB 5; Length 963;
Best Local Similarity 78.1%; Pred. No. 5.4e-05;
Matches 82; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 2138 TTTCCTTTTATCTTATTATAAATAATGTTGGTCTCCACCACTGCTCCCAAAAAA 2197
Db 847 TTTCCTACATAAAGTAATAAAGTTGTCTTTTCGGCCACCGTGAAAAA 905
QY 2198 AAAAAA 2242
Db 907 AAAAAA 951

RESULT 174
ABK91660
ID ABK91660 standard; cDNA; 963 BP.
XX
AC ABK91660;

XX
DT 26-AUG-2002 (first entry)
XX
DE cDNA encoding novel ovarian related polypeptide #27.
XX
KW Ovarian related polypeptide; neoplastic disorder; tumour; ovarian cancer;
KW hyperproliferative disorder; adult acute lymphocytic leukaemia;
KW breast cancer; reproductive system disorder; tuberculosis; arthritis;
KW immune system disorder; Chediak-Higashi's syndrome; neonatal neutropenia;
KW autoimmune disorder; Hashimoto's thyroiditis; inflammatory disorder;
KW septic shock; multiple sclerosis; central nervous system disorder;
KW neurological disorder; allergy; Parkinson's disease; Alzheimer's disease;
KW cardiovascular disorder; atherosclerosis; blood related disorder;
KW respiratory disorder; urinary system disorder; musculoskeletal disorder;
KW osteoporosis; wound healing; endocrine disorder; infectious disease;
KW gastrointestinal disorder; transplantation; food additive; preservative;
KW gene; ss.
XX
OS Homo sapiens.
XX
PN US2002045230-A1.
XX
PD 18-APR-2002.
XX
PF 20-JUL-2001; 2001US-00908711.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
PR 14-AUG-2000; 2000US-0225447P.
PR 14-AUG-2000; 2000US-0225757P.
PR 14-AUG-2000; 2000US-0225758P.
PR 14-AUG-2000; 2000US-0225759P.
PR 18-AUG-2000; 2000US-0226279P.
PR 22-AUG-2000; 2000US-0226681P.
PR 22-AUG-2000; 2000US-0226868P.
PR 22-AUG-2000; 2000US-0227182P.
PR 23-AUG-2000; 2000US-0227009P.
PR 30-AUG-2000; 2000US-0228924P.
PR 01-SEP-2000; 2000US-0229287P.
PR 01-SEP-2000; 2000US-0229343P.
PR 01-SEP-2000; 2000US-0229344P.
PR 01-SEP-2000; 2000US-0229345P.
PR 05-SEP-2000; 2000US-0229509P.
PR 05-SEP-2000; 2000US-0229513P.
PR 06-SEP-2000; 2000US-0230437P.
PR 06-SEP-2000; 2000US-0230438P.
PR 08-SEP-2000; 2000US-0231242P.
PR 08-SEP-2000; 2000US-0231243P.
PR 08-SEP-2000; 2000US-0231244P.

PR 08-SEP-2000; 2000US-0231413P.
PR 08-SEP-2000; 2000US-0231414P.
PR 08-SEP-2000; 2000US-0232080P.
PR 08-SEP-2000; 2000US-0232081P.
PR 12-SEP-2000; 2000US-0231968P.
PR 14-SEP-2000; 2000US-0232397P.
PR 14-SEP-2000; 2000US-0232398P.
PR 14-SEP-2000; 2000US-0232399P.
PR 14-SEP-2000; 2000US-0232400P.
PR 14-SEP-2000; 2000US-0232401P.
PR 14-SEP-2000; 2000US-0233063P.
PR 14-SEP-2000; 2000US-0233064P.
PR 14-SEP-2000; 2000US-0233065P.
PR 21-SEP-2000; 2000US-0234223P.
PR 21-SEP-2000; 2000US-0234274P.
PR 25-SEP-2000; 2000US-0234997P.
PR 25-SEP-2000; 2000US-0234998P.
PR 26-SEP-2000; 2000US-0235484P.
PR 27-SEP-2000; 2000US-0235834P.
PR 27-SEP-2000; 2000US-0235836P.
PR 29-SEP-2000; 2000US-0236327P.
PR 29-SEP-2000; 2000US-0236367P.
PR 29-SEP-2000; 2000US-0236368P.
PR 29-SEP-2000; 2000US-0236369P.
PR 29-SEP-2000; 2000US-0236370P.
PR 02-OCT-2000; 2000US-0236802P.
PR 02-OCT-2000; 2000US-0237037P.
PR 02-OCT-2000; 2000US-0237038P.
PR 02-OCT-2000; 2000US-0237039P.
PR 02-OCT-2000; 2000US-0237040P.
PR 13-OCT-2000; 2000US-0239935P.
PR 13-OCT-2000; 2000US-0239937P.
PR 20-OCT-2000; 2000US-0240960P.
PR 20-OCT-2000; 2000US-0241221P.
PR 20-OCT-2000; 2000US-0241785P.
PR 20-OCT-2000; 2000US-0241786P.
PR 20-OCT-2000; 2000US-0241787P.
PR 20-OCT-2000; 2000US-0241808P.
PR 20-OCT-2000; 2000US-0241809P.
PR 20-OCT-2000; 2000US-0241826P.
PR 01-NOV-2000; 2000US-0244617P.
PR 08-NOV-2000; 2000US-0246474P.
PR 08-NOV-2000; 2000US-0246475P.
PR 08-NOV-2000; 2000US-0246476P.
PR 08-NOV-2000; 2000US-0246477P.
PR 08-NOV-2000; 2000US-0246478P.
PR 08-NOV-2000; 2000US-0246523P.
PR 08-NOV-2000; 2000US-0246524P.
PR 08-NOV-2000; 2000US-0246525P.
PR 08-NOV-2000; 2000US-0246526P.
PR 08-NOV-2000; 2000US-0246527P.
PR 08-NOV-2000; 2000US-0246528P.
PR 08-NOV-2000; 2000US-0246532P.
PR 08-NOV-2000; 2000US-0246609P.
PR 08-NOV-2000; 2000US-0246610P.
PR 08-NOV-2000; 2000US-0246611P.
PR 08-NOV-2000; 2000US-0246613P.
PR 17-NOV-2000; 2000US-0249207P.
PR 17-NOV-2000; 2000US-0249208P.
PR 17-NOV-2000; 2000US-0249209P.
PR 17-NOV-2000; 2000US-0249210P.
PR 17-NOV-2000; 2000US-0249211P.
PR 17-NOV-2000; 2000US-0249212P.
PR 17-NOV-2000; 2000US-0249213P.
PR 17-NOV-2000; 2000US-0249214P.
PR 17-NOV-2000; 2000US-0249215P.
PR 17-NOV-2000; 2000US-0249216P.
PR 17-NOV-2000; 2000US-0249217P.
PR 17-NOV-2000; 2000US-0249218P.
PR 17-NOV-2000; 2000US-0249244P.
PR 17-NOV-2000; 2000US-0249245P.
PR 17-NOV-2000; 2000US-0249264P.
PR 17-NOV-2000; 2000US-0249265P.

PR 17-NOV-2000; 2000US-0249297P.
PR 17-NOV-2000; 2000US-0249299P.
PR 17-NOV-2000; 2000US-0249300P.
PR 01-DEC-2000; 2000US-0250160P.
PR 01-DEC-2000; 2000US-0250391P.
PR 05-DEC-2000; 2000US-0251030P.
PR 05-DEC-2000; 2000US-0251988P.
PR 05-DEC-2000; 2000US-0256719P.
PR 06-DEC-2000; 2000US-0251479P.
PR 08-DEC-2000; 2000US-0251856P.
PR 08-DEC-2000; 2000US-0251868P.
PR 08-DEC-2000; 2000US-0251869P.
PR 08-DEC-2000; 2000US-0251989P.
PR 08-DEC-2000; 2000US-0251990P.
PR 11-DEC-2000; 2000US-0254097P.
PR 05-JAN-2001; 2001US-0259678P.
PR 17-JAN-2001; 2001US-00764853.
PR 17-JAN-2001; 2001US-00764856.
PR 17-JAN-2001; 2001US-00764864.
PR 17-JAN-2001; 2001US-00764867.
PR 17-JAN-2001; 2001US-00764868.
PR 17-JAN-2001; 2001US-00764869.
PR 17-JAN-2001; 2001US-00764870.
PR 17-JAN-2001; 2001US-00764874.
PR 17-JAN-2001; 2001US-00764882.
PR 17-JAN-2001; 2001US-00764888.
PR 17-JAN-2001; 2001US-00764891.
PR 17-JAN-2001; 2001US-00764892.
PR 17-JAN-2001; 2001US-00764896.
PR 17-JAN-2001; 2001US-00764898.
PR 17-JAN-2001; 2001US-00764902.
PR 17-JAN-2001; 2001US-00764905.
PR 17-JAN-2001; 2001WO-US001239.
PR 17-JAN-2001; 2001WO-US001307.
PR 17-JAN-2001; 2001WO-US001312.
PR 17-JAN-2001; 2001WO-US001320.
PR 17-JAN-2001; 2001WO-US001329.
PR 17-JAN-2001; 2001WO-US001334.
PR 17-JAN-2001; 2001WO-US001336.
PR 17-JAN-2001; 2001WO-US001339.
PR 17-JAN-2001; 2001WO-US001340.
PR 17-JAN-2001; 2001WO-US001341.
PR 17-JAN-2001; 2001WO-US001344.
PR 17-JAN-2001; 2001WO-US001345.
PR 17-JAN-2001; 2001WO-US001347.
PR 17-JAN-2001; 2001WO-US001348.
PR 17-JAN-2001; 2001WO-US001360.
XX
PA (ROSE/) ROSEN C A.
PA (RUBI/) RUBIN S M.
PA (BARA/) BARASH S C.

Query Match 3.1%; Score 68.8; DB 6; Length 963;
Best Local Similarity 78.1%; Pred. No. 5.4e-05;
Matches 82; Conservative 0; Mismatches 23; Indels 0; Gaps 0;
Qy 2138 TTTCTTTTATCTTATTATAAATAAATGGTGTCTCCACCACGTGCTCCCAAAAAA 2197
Db 847 TTTCTCTACATAAAAGTAATAAAGTTGTCTTTCGGCCACCGTGAATAAAAAA 906
Qy 2198 AA 2242
Db 907 AA 951

RESULT 175
AAC59534
ID AAC59534 standard; cDNA; 1086 BP.
XX
AC AAC59534;
XX
DT 15-FEB-2001 (first entry)
XX

DE Human secreted protein cDNA sequence #28.
XX
KW Cytostatic; immunosuppressive; nootropic; neuroprotective; antiviral;
KW antiallergic; hepatotropic; antidiabetic; antiinflammatory; antilucer;
KW vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic;
KW cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
KW neurological disease; infection; human; secreted protein; ss.
XX
OS Homo sapiens.
XX WO200055352-A2.
PN
XX 21-SEP-2000.
PD
XX 09-MAR-2000; 2000WO-US006044.
PF
XX 12-MAR-1999; 99US-0124099P.
PR 03-DEC-1999; 99US-0168661P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM, Komatsoulis G;
XX
DR WPI; 2000-602124/57.
DR P-PSDB; AAB34243.
XX
PT Novel human secreted proteins useful for diagnosis, prevention and
PT treatment of disorders including neurological, cell proliferative,
PT cardiovascular, autoimmune and inflammatory disorders and microbial
PT infections.
XX
PS Claim 1; Page 334; 383pp; English.
XX
CC The invention relates to the isolation of genes AAC59507-C59556 encoding
CC 50 human secreted proteins AAB34218-B34264) The genes can be used to
CC generate fusion proteins by linking to the gene for the human
CC immunoglobulin G Fc portion (AAC59498) for increasing the stability of
CC the fusion protein as compared to the human protein only. The genes and
CC proteins are useful for preventing, ameliorating or treating medical
CC conditions, e.g. by protein or gene therapy. The genes are isolated from
CC a range of human tissues disclosed in the specification. The nucleic
CC acids, proteins, antibodies and (ant)agonists are useful in the
CC diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
CC ovarian cancer, and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b)
CC immune disorders e.g. Addison's disease, diabetes mellitus, Crohn's disease,
CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing
CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
CC infectious diseases such as viral, bacterial, fungal and parasitic
CC infections
SQ Sequence 1086 BP; 291 A; 249 C; 245 G; 301 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.8; DB 3; Length 1086;
Best Local Similarity 70.5%; Pred. No. 5.6e-05;
Matches 91; Conservative 0; Mismatches 38; Indels 0; Gaps 0;
Qy 2114 ATGATCGCCTTTGCTTTACCACCTCTTTCCTTTTATCTTATTATAAATGTTGCTCTCC 2173
Db 943 ATGATTTTCATGTTCTTTTAAAGGTTGTTTTCGATGTGAATATTTTCT 1002
Qy 2174 ACCACTGNCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2233
Db 1003 GTGTCTTCTCTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1062
Qy 2234 AAAAAAAAAA 2242
Db 1063 AAAAAAAAAA 1071

; (1) a transformed cell having a nucleic acid comprising an LMFD nucleic acid linked to a promoter and a 3' non-translated sequence that functions in the cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of the mRNA molecule; and (2) determining a level or pattern of a molecule in a bovine cell or tissue comprising: (a) incubating a marker nucleic acid (comprising any of the 15112 nucleic acid sequences or its complement or fragment) with a complementary nucleic acid molecule obtained from the bovine cell or tissue, where hybridisation between the marker nucleic acid and the complementary nucleic acid permits the detection of the molecule; and (b) detecting the level or pattern of the complementary nucleic acid, where the detection of the complementary nucleic acid is predictive of the level or pattern of the molecule. The LMFD nucleic acid is used for determining a level or pattern of a molecule in a bovine cell or tissue. It is useful for genome mapping, gene identification and analysis, cattle breeding, preparation of constructs for use in cattle gene expression, or for genetically improving cattle. The present sequence is one of the 15112 bovine LMFD EST (expressed sequence tag) nucleic acids. Note: The present sequence was not shown in the specification but was obtained in electronic format from the USPTO web site:
segdata.uspto.gov/sequence.html?docID=20020137139

SQ Sequence 291 BP; 54 A; 20 C; 39 G; 178 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.6; DB 8; Length 291;
Best Local Similarity 80.0%; Pred. No. 4.1e-05;
Matches 80; Conservative 0; Mismatches 20; Indels

[illegible]

RESULT 178
ADK61481/C
ID ADK61481 standard: DNA: 380 BP.

ADK61481:

DT 06-MAY-2004 (first entry)

DE Ovarian cancer-related DNA #636 with altered ovarian cancer expression.

ds; gene; ovarian tumor; BRCA-1-like; BRCA-2-like; non-BRCA-like;
KW gene expression; primer; cancer.

AA
OS
Homo sapiens.

AX WO2003068054-A2

21-AUG-2003.

13-FEB-2003: 2003WO-US004688.

13-FEB-2002; 2002US-0357031P.

PA (USSH) US DEPT HEALTH & HUMAN SERVICES.
PA (SLOK) SLOAN KETTERING INST CANCER RES.

PI Jazaeri AA, Boyd J, Liu ET:

DR WPI; 2003-689589/65.

Classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor by determining a pattern of expression in the ovarian tumor of several markers.

PS Disclosure; SEQ ID NO 651; 137pp; English.

The invention relates to a method of classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor by: (1) determining a pattern of expression in the ovarian tumor of several markers given in the specification; and (2) comparing a similarity of the pattern of expression of the markers in the ovarian tumor to a pattern of expression of the markers in a comparison tissue of a known BRCA-1-like or BRCA-2-like or non-BRCA-like tumor. The method is useful for classifying an ovarian tumor as a BRCA-1-like or BRCA-2-like or non-BRCA-like tumor. This sequence corresponds to an ovarian cancer -related gene having an altered pattern of expression in ovarian cancer. (Note: The sequence data for this patent did not form part of the printed specification but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published/pct_sequences/).

Sequence 380 BP: 137 A: 81 C: 74 G: 88 T: 0 U: 0 Other:

Query Match	3.1%;	Score 68.6;	DB 10;	Length 380;
Best Local Similarity	71.8%;	Pred. No. 4.5e-05;		
Matches 89;	Conservative	0;	Mismatches 35;	Indels 0

Qy 2119 CGCCCTTGGCTTTACCACTCTTTCCCTTTATCTTATTAAATAAAGTTGGTCTCCACCAC 2178
| | |||| | | | | | | | | | | | | | |
pB 142 CCCCTTTGGTGTCTCTTTTTTTTTGGGGTTTTATTTCCTGTTTGGGGGGGCC 83
| | |||| | | | | | | | | | | | | | |

QY	2179	TGCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2238
pb	82	CGGGTCCCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	23

Ov 2239 AAAA 2242

.Db 22 AAAA 19

RESULT 179

AAI87378

ID AAI87378 standard; cDNA; 411 BP.

AC AAI87378;

DT 06-NOV-2001 (first entry)

Human polynucleotide SEQ ID NO 7438.

Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation; ss.

OS Homo sapiens.

WO200164835-A2

07-SEP-2001

26-FEB-2001: 2001WO-US004927.

PR 28-FEB-2000: 2000US-00515126.

[illegible]

Tang YT, Liu C, Drmanac RT;

DR WPI: 2001-514838/56.

Isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.

PS Claim 1: SEO ID NO 7438: 1399pp + Sequence Listing; English.

CC The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC the encoded proteins (AAO0010-AAO13910) that exhibit activity relating to

PI Fanger GR, Fling SP;
XX WPI; 2004-178717/17.
XX Novel isolated ovarian tumor polynucleotide encoding ovarian tumor
PT polypeptide, useful as probes of primers for detecting presence of cancer
PT in a patient.
XX Example 1; SEQ ID NO 16; 222pp; English.
XX This invention relates to novel isolated polynucleotides and methods for
CC the therapy and diagnosis of cancer, particularly ovarian cancer.
CC Specifically, it refers to these polynucleotides and the encoded
CC polypeptides thereof, as well as immunogenic peptides, antibodies,
CC antigen presenting cells (APCs) and immune system cells (e.g. T cells)
CC that are targeted to those cells expressing the proteins of interest. The
CC present invention describes methods that are useful for stimulating and/
CC or expanding T cells specific for a tumourigenic protein (i.e. T cell
CC therapy). Furthermore, compositions can be used for the diagnosis,
CC treatment and/ or prevention of ovarian cancer by stimulating an immune
CC response in a patient. Accordingly, these compositions exhibit cytostatic
CC activity. This polynucleotide sequence is a representative human ovarian
CC carcinoma cDNA sequence of the invention.
XX
SQ Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;
Query Match 3.1%; Score 68.4; DB 12; Length 396;
Best Local Similarity 63.6%; Pred. No. 5e-05;
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 2111 CCAATGATCGCCTTTCCTTTTACCACCTCTTTCCTTTTATCTTATTAATAAAATGTTGGTC 2170
Db 179 CCNNANNCCCCCTNTTTTTCCTTTTCCNNNNNTNTNANAAAAANTTTNNNC 120
QY 2171 TCCACCACCTGCTCCCAAAAAA 2242
Db 119 CCCCCNAAAAA 48
QY 2231 AAAAAA 2242
Db 59 AAAAAA 48
RESULT 188
ADM43276/c
ID ADM43276 standard; cDNA; 396 BP.
XX
AC ADM43276;
XX
DT 03-JUN-2004 (first entry)
XX
DE Human ovarian carcinoma cDNA #16.
XX
KW ss; human; cancer; ovarian cancer; ovarian carcinoma.
XX
OS Homo sapiens.
XX
PN US2003129192-A1.
XX
PD 10-JUL-2003.
XX
PF 02-AUG-2002; 2002US-00212677.
XX
PR 10-SEP-1999; 99US-00394374.
PR 01-MAY-2000; 2000US-00561778.
PR 15-AUG-2000; 2000US-00640173.
PR 07-SEP-2000; 2000US-00656668.
PR 14-NOV-2000; 2000US-00713550.
PR 03-APR-2001; 2001US-00825294.
PR 02-OCT-2001; 2001US-00970966.
XX
PA (CORI-) CORIXA CORP.
XX

PI Chenault RA, Xu J, Fanger GR, Harlocker SL, Mcneill PD;
XX WPI; 2004-051070/05.
XX New isolated polynucleotide encoding an ovarian tumor protein for use in
PT diagnosing, preventing or treating cancer, particularly ovarian cancer.
PT
XX Claim 1; SEQ ID NO 16; 220pp; English.
XX The invention relates to an isolated polynucleotide. The invention is
CC used to diagnose, prevent or treat cancer, particularly ovarian cancer.
CC The present sequence represents a human ovarian carcinoma cDNA.
XX
SQ Sequence 396 BP; 69 A; 53 C; 56 G; 136 T; 0 U; 82 Other;
Query Match 3.1%; Score 68.4; DB 12; Length 396;
Best Local Similarity 63.6%; Pred. No. 5e-05;
Matches 84; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
QY 2111 CCAATGATCGCCTTTCCTTTTACCACCTCTTTCCTTTTATCTTATTAATAAAATGTTGGTC 2170
Db 179 CCNNANNCCCCCTNTTTTTCCTTTTCCNNNNNTNTNANAAAAANTTTNNNC 120
QY 2171 TCCACCACCTGCTCCCAAAAAA 2242
Db 119 CCCCCNAAAAA 48
QY 2231 AAAAAA 2242
Db 59 AAAAAA 48
RESULT 189
ADI72227/c
ID ADI72227 standard; DNA; 647 BP.
XX
AC ADI72227;
XX
DT 20-MAY-2004 (first entry)
XX
DE Human ovarian cancer DNA marker #4969.
XX
KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX
OS Homo sapiens.
XX
PN WO200170979-A2.
XX
PD 27-SEP-2001.
XX
PF 21-MAR-2001; 2001WO-US009126.
XX
PR 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Lee J, Lillie J;
XX
DR WPI; 2001-611502/70.
XX
PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT cancer cells as compared to their normal non-cancerous ovarian cells are
PT used to characterize stage, grade, histological type of ovarian cancer.
XX
PS Disclosure; SEQ ID NO 4969; 106pp; English.
XX
CC The invention relates to nucleic acid markers which are overexpressed in
CC ovarian cancer cells as compared to their expression in normal (i.e. non-

Db 91 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 57

RESULT 191

AAV01527

ID AAV01527 standard; cDNA to mRNA; 2239 BP.

XX

AC AAV01527;

XX

DT 27-AUG-2003 (revised)

DT 21-MAY-1998 (first entry)

XX

DE Wheat soluble starch synthase partial cDNA sequence.

XX

KW Starch synthase; wheat; transgenic plant; ss.

XX

OS Triticum aestivum.

XX

FH Key Location/Qualifiers

FT CDS 3..2018

FT /*tag= a

XX

PN WO9745545-A1.

XX

PD 04-DEC-1997.

XX

PF 28-MAY-1997; 97WO-EP002793.

XX

PR 29-MAY-1996; 96DE-01021588.

PR 11-SEP-1996; 96DE-01036917.

XX

PA (AGRE) HOECHST-SCHERING AGREVO GMBH.

XX

PI Block M, Loerz H, Luetticke S, Walter L, Froberg C, Kossmann J;

XX

DR WPI; 1998-032652/03.

DR P-PSDB; AAW23937.

XX

PT Nucleic acid encoding starch synthase enzymes from wheat - for transgenic

PT plants that produce modified forms of starch, useful e.g. in foods, or

PT for production of packaging materials and disposable goods.

XX

PS Claim 1; Page 47-51; 71pp; English.

XX

CC This near full-length cDNA clone, designated Tasss, codes for a soluble

CC starch synthase (see AAW23837) of summer wheat (cv. Florida). It was

CC isolated from a phage cDNA library of 21-day-old wheat caryopses by

CC screening with a PCR fragment derived from rice soluble starch synthase

CC (see also AAV01529-30). A second clone (see AAV01528), coding for wheat

CC granule-bound starch synthase (see AAW23938) is also claimed. These

CC isolated nucleic acids can be inserted into vectors for production of

CC transgenic plants, particularly starch-producing plants, specifically

CC wheat. Use of the isolated nucleic acids, or of antisense sequences,

CC allows starch metabolism to be regulated in transgenic plants.

CC Overexpression may result in improved crop yield, while modification of

CC starch in planta may eliminate the need for subsequent chemical/physical

CC modification. Plants with altered levels of the various isoforms of

CC starch synthase will produce starch of different chain length,

CC amylose/amylopectin ratio, degree of branching, phosphate content,

CC gelatinisation behaviour, granule size and shape, viscosity etc. The

CC starch produced by such plants is useful particularly in foods or to

CC produce packaging materials or disposable goods, as well as in any other

CC known use of starch. (Updated on 27-AUG-2003 to correct OS field.)

XX

SQ Sequence 2239 BP; 611 A; 448 C; 590 G; 590 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.4; DB 2; Length 2239;

Best Local Similarity 78.6%; Pred. No. 8.6e-05;

Matches 81; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 2140 TCCTTTTATCTTATTAATAAATAATGTTGGTCTCCACCACACTGCTCCCAAAAAAAAAA 2199

Db 2110 TGCTGTTTTTTTTTAAATCAAAAGAGGGGTTTCTCCGATTTCATTAAAAA 2169

QY 2200 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242

Db 2170 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2212

RESULT 192

AAZ24487

ID AAZ24487 standard; DNA; 2805 BP.

XX

AC AAZ24487;

XX

DT 18-FEB-2000 (first entry)

XX

DE Wheat soluble starch synthase DNA.

XX

KW Soluble; starch synthase; wheat; transgenic plant; starch production;

KW food; baking; pastry; packaging material; glucose; glucan; paper; pulp;

KW adhesive; textile; building material; soil stabilizer; wetting agent;

KW fertilizer; plant-protection; cosmetic; flocculant; ss.

XX

OS Triticum aestivum.

XX

FH Key Location/Qualifiers

FT CDS 314..2584

FT /*tag= a

FT /product= "soluble starch synthase"

XX

PN DE19820607-A1.

XX

PD 11-NOV-1999.

XX

PF 08-MAY-1998; 98DE-01020607.

XX

PR 08-MAY-1998; 98DE-01020607.

PA (AGRE) HOECHST-SCHERING AGREVO GMBH.

XX

PI Loerz H, Luetticke S, Block M;

XX

DR WPI; 2000-024508/03.

DR P-PSDB; AAY50818.

XX

PT New enzyme with starch synthase activity, useful for producing starch for

PT foods and packaging materials.

XX

PS Claim 1b; Page 15-19; 24pp; German.

XX

CC This invention describes a novel protein (I) with the activity of wheat

CC starch synthase. Transgenic plants, specifically wheat, that contain (I)

CC are used for production of starch, used particularly in foods,

CC particularly baked and pastry goods and for making packaging materials or

CC disposable items. Starch may also be used as starting materials for

CC glucose or glucan components (e.g. for fermentation or further chemical

CC conversion); in paper and pulp production, as adhesives, in textiles, in

CC preparation of gypsum-based building materials, as soil stabilizers, as

CC wetting agent etc. in fertilizer and plant-protection compositions, as

CC binder (in pharmaceuticals, cosmetics, coal briquetting and casting

CC sand), as flocculant in soil or coal slurries, as rubber and leather

CC additives, and for production of synthetic polymers, e.g. polyurethane

CC films. Transgenic plants with increased/decreased production of (I)

CC produce starches with altered physical and/or chemical properties such as

CC amylose/amylopectin ratios, degree of branching, mean chain length,

CC phosphate content, gelatinization properties, gel- or film-forming

CC properties, or starch grain size or structure. This sequence encodes the

CC soluble starch synthase isolated from wheat (Triticum aestivum L. cv.

CC Florida)

XX

SQ Sequence 2805 BP; 683 A; 703 C; 763 G; 656 T; 0 U; 0 Other;

Query Match 3.1%; Score 68.4; DB 3; Length 2805;

Best Local Similarity 78.6%; Pred. No. 9.3e-05;

Matches 81; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

WPI; 2003-787014/74.

Novel isolated polypeptide associated with breast cancer, useful for detecting presence of polypeptide in sample, as a marker for breast cancer.

Disclosure; SEQ ID NO 8817; 36pp; English.

The invention relates to an isolated polypeptide (I) associated with breast cancer which is encoded by a nucleic acid molecule comprising a nucleotide sequence (SI). Further disclosed is an antibody that binds to the polypeptide of the invention. The activity of the polypeptide of the invention may be described as cytostatic. The antibody is useful for detecting the presence of (I) in a sample. Nucleic acid molecules of the invention are useful in the detection of breast tumours. (I) is useful as a marker for breast cancer and in breast cancer therapy. Sequences given in records ACN78851-ACN92934 represent nucleic acid markers associated with breast cancer. Note: The sequence listing does not form part of the specification but may be obtained in electronic format from the USPTO web site at seqdata.uspto.gov/sequence.html?DocID=20030099974

Sequence 617 BP; 157 A; 69 C; 107 G; 169 T; 0 U; 115 Other;

Query Match 3.0%; Score 68.2; DB 11; Length 617;
 Best Local Similarity 77.0%; Pred. No. 6.4e-05;
 Matches 77; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

QY 2143 TTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACCTGCTCCAAAAA 2202
 DB 254 TTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACCTGCTCCAAAAA 195

QY 2203 AAAAAA 2242
 DB 194 AAAAAA 155

RESULT 197

ADA20764

ID ADA20764 standard; cDNA; 2797 BP.

XX AC ADA20764;

XX DT 20-NOV-2003 (first entry)

XX DE Soybean cDNA encoding a phospholipase D gamma #2.

XX KW ss; gene; plant; respiratory burst oxidase; Rboh; tRNA-mnm-s-U-MT;
 KW chromomethylase; cytosine 5-methyltransferase; phospholipase D;
 KW transcription factor IIF; asparaginyl tRNA transferase;
 KW glutaminyl tRNA transferase; EDS1; adaptin AP50; adaptin alpha;
 KW adaptin betas; stress resistance; quality grain improvement; starch;
 KW herbicide.

XX OS Glycine max.

XX PN US2003003471-A1.

XX PD 02-JAN-2003.

XX PF 19-FEB-2002; 2002US-00078770..

XX PR 12-JUL-1999; 99US-0143400P.
 PR 12-JUL-1999; 99US-0143409P.
 PR 12-JUL-1999; 99US-0143410P.
 PR 13-SEP-1999; 99US-0153534P.
 PR 01-OCT-1999; 99US-0157401P.
 PR 15-OCT-1999; 99US-0159878P.
 PR 22-OCT-1999; 99US-0161223P.
 PR 11-JUL-2000; 2000US-00614188.

XX (FAMO/) FAMODU O O.
 PA (MIAO/) MIAO G.
 PA (SIMM/) SIMMONS C R.

PA	(WENG//) WENG Z.
PA	(CAHO/) CAHOON R E.
PA	(SAKA/) SAKAI H.
PA	(QUNZ/) QUN Z.
PA	(THOR/) THORPE C J.
PA	(FADE/) FADER G M.
PA	(LIBB/) LI B.
XX	
PI	Famodu OO, Miao G, Simmons CR, Weng Z, Cahoon RE, Sakai H;
PI	Qun Z, Thorpe CJ, Fader GM, Li B;
XX	
DR	WPI; 2003-311885/30.
DR	P-PSDB; ADA20765.
XX	
PT	New phospholipase D polypeptides and polynucleotides, useful for
PT	genetically and physically mapping the genes that they are part of, and
PT	subsequently in plant breeding for developing lines with the desired
PT	phenotypes.
XX	
PS	Claim 3; Page 130-132; 189pp; English.
XX	
CC	The invention relates to an isolated polynucleotide encoding a
CC	phospholipase D comprising a nucleotide sequence (encoding a polypeptide
CC	of at least 80 amino acids having at least 92% identity based on the
CC	Clustal method of alignment when compared to the proteins appearing as ID
CC	120-134 (even numbers) or their complements). Also included are
CC	nucleotides encoding 98 plant proteins (comprising respiratory burst
CC	oxidases (Rboh), tRNA-mmm-s-U-MT, chromomethylases, cytosine 5-
CC	methyltransferases, phospholipase D, transcription factor IIF,
CC	asparaginyl tRNA transferases, glutaminyl tRNA transferases, EDS1 (not
CC	defined), adaptin AP50, adaptin alphas and adaptin betas), chimaeric
CC	genes, host cells comprising the chimaeras, a virus comprising the gene,
CC	the encoded phospholipase D proteins, a method of selecting an isolated
CC	polynucleotide that affects the level of expression of a phospholipase D
CC	polypeptide in a plant cell, a method of obtaining a nucleic acid
CC	fragment encoding a phospholipase D polypeptide, a method for positive
CC	selection of a transformed cell and a method of altering the level of
CC	expression of a phospholipase D in a host cell. The polynucleotides may
CC	be used as probes for genetically and physically mapping the genes that
CC	they are part of, and as markers for traits linked to those genes. Such
CC	information may be used in plant breeding to develop lines with the
CC	desired phenotypes. The nucleic acids are useful in creating transgenic
CC	plants in which the polypeptides are present at higher or lower levels
CC	than normal, in cell types or developmental stages in which they are not
CC	normally found, and which would alter the level of stress and disease
CC	resistance, enhancement of gene expression or transcription, quality
CC	grain improvement, or generation of novel starches in those cells. The
CC	polypeptides can be used as a target to facilitate design and/or
CC	identification of inhibitors of those enzymes that may be useful as
CC	herbicides. The present sequence is a cDNA encoding one of the 98
CC	proteins of the invention.
XX	
SQ	Sequence 2797 BP; 935 A; 498 C; 617 G; 747 T; 0 U; 0 Other;
	Query Match 3.0%; Score 68.2; DB 10; Length 2797;
	Best Local Similarity 58.4%; Pred. No. 0.0001;
	Matches 118; Conservative 0; Mismatches 84; Indels 0; Gaps 0;
QY	2041 ATTTGATTGGCATAATCACTCCGGTTTGCTTTCTAGGTCTCTCAAGTCTCGTGACACATA 2100
Db	2567 ATTTTAGTAGCTTATTACAATATTTAGATTCTTTTGGAAAAGAAAAAAGAGGTATA 2626
QY	2101 ATCATTTCCATCCAATGATCGCCCTTTTGCTTTTACCACACTCTTTTCCTTTTATCTTATTAATAAA 2160
Db	2627 AAGATTTGAAC TTGTAACCTGCTTTGAAGTACTAGTTTACTCAATGCTCTATTTAAGATT 2686
QY	2161 AATGTTGGTCTCCACCACACTGNCTCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2220
Db	2687 TAAGGTAGTCTTAAA 2746
QY	2221 AAAAAAAAAAAAAAAAAAAAAA 2242
Db	2747 AAAAAAAAAAAAAAAAAAAAAA 2768


```
QY 2110 TCCAATGATCGCCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAAATGTTGGT 2169
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 229 TCCCTTCCCTCCCTTTTAAAAAAATTTAAATTAATTTTAAAAATTTTAAAT 170
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2170 CTCCACCACTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2229
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 169 ATAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 110
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2230 AAAAAAATAAAAAA 2242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 109 AAAAAAATAAAAAA 97

RESULT 200
ACN52303
ID ACN52303 standard; cDNA; 549 BP.
XX
AC ACN52303;
XX
DT 02-DEC-2004 (first entry)
XX
DE Cotton androecium tissue EST Clone ID: LIB3828-014-Q1-K6-F6, SEQ:7084.
XX
KW Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;
KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX
OS Gossypium hirsutum.
XX
PN US2004123340-A1.
XX
PD 24-JUN-2004.
XX
PF 12-DEC-2001; 2001US-00021323.
XX
PR 14-DEC-2000; 2000US-0255619P.
XX
PA (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
PI Deikman J, Feng PCC, Fincher KL, Ziegler TE;
XX
WPI; 2004-479808/45.
XX
New isolated nucleic acid molecule that encodes a plant protein or its
fragment, useful for isolating a variety of agronomically significant
genes associated with plant growth, quality or yield, and as molecular
tags to map genes.
XX
PS Claim 1; SEQ ID NO 7084; 34pp; English.
XX
The invention relates to 17880 cotton expressed sequence tags (ESTs;
ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
from primed or non-primed seeds from variety DP50B, mature seeds from
variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
tissue, developing fibres, carpel walls and septa from variety
Nucotton33B. The invention also relates to substantially purified
proteins or their fragments encoded by nucleic acid molecules of the
invention, and to transformed plants having a nucleic acid construct
comprising a nucleic acid of the invention. The cotton ESTs are useful as
molecular tags to isolate genetic regions, to isolate genes, to map
genes, to determine gene function and to determine whether genes are
members of a particular gene family. The nucleic acid molecules may be
used for isolating a variety of agronomically significant genes
associated with plant growth, quality, yield, and could also serve as
links in metabolic and catabolic pathways. The nucleic acid molecules are
also useful for identifying genes important in initiating and maintaining
seed germination or that may be used to mitigate stresses encountered
during seed germination. The ESTs additionally enable the acquisition of
```

```
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
SQ Sequence 549 BP; 247 A; 59 C; 86 G; 148 T; 0 U; 9 Other;
    Query Match 3.0%; Score 68; DB 13; Length 549;
    Best Local Similarity 66.9%; Pred. No. 6.8e-05;
    Matches 95; Conservative 0; Mismatches 47; Indels 0; Gaps 0;
QY 2101 ATCATTCATCCAAATGATCGCCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAA 2160
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 347 ATAATTCATGTCATTTTGTGTTGACTTTATGACTTTATATATATGCAAAATGTTTCT 406
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2161 AATGTTGGTCTCCACCACCTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAA 2220
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 407 GTTAATGGTTTTCAACTAANAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 466
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 2221 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2242
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 467 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 488

RESULT 201
ABL86758/c
ID ABL86758 standard; cDNA; 636 BP.
XX
AC ABL86758;
XX
DT 17-MAY-2002 (first entry)
XX
DE Human ovarian cancer related cDNA clone SEQ ID NO:9736.
XX
KW Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200192581-A2.
XX
PD 06-DEC-2001.
XX
PF 29-MAY-2001; 2001WO-US017756.
XX
PR 26-MAY-2000; 2000US-0207484P.
XX
PA (CORI-) CORIXA CORP.
XX
PI Algate PA, Harlocker SL, Jones R;
XX
WPI; 2002-122075/16.
XX
Composition for therapy and diagnosis of ovarian cancer comprising
polypeptide of a ovarian tumor polypeptide, polynucleotide encoding
polypeptide, antibody specific to polypeptide or T cell expressing
polypeptide.
XX
PS Claim 1; SEQ ID NO 9736; 489pp; English.
XX
The present invention describes a composition (I) comprising: carriers
and immunostimulants; and a polypeptide (II) of a ovarian tumour
polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1)
from the 10912 nucleotide sequences as given in ABL77023 to ABL87934,
(CC (III) encoding (II) having a sequence (S2), a T cell population of (II),
or antigen presenting cells that express (II). (I) has cytostatic
```


DR	P-PSDB; ADR04269.	
XX		
PT	New polynucleotides, specifically nucleic acid fragments encoding	
PT	flowering locus T gene (FT) or terminal flower (TFL), or Apetalal3 (Ap3)	
PT	homologs, useful for floral development, e.g. engineering plant flowering	
PT	time.	
XX		
PS	Disclosure; SEQ ID NO 35; 109pp; English.	
XX		
CC	The present invention describes an isolated polynucleotide comprising a	
CC	first, second, third, fourth or fifth nucleotide sequence, or their	
CC	complement encoding a polypeptide either having flowering locus T gene	
CC	(FT), terminal flower (TFL), or Apetalal3 (Ap3) homologue activity. Also	
CC	described: (1) a vector comprising the polynucleotide; (2) a recombinant	
CC	DNA construct comprising the polynucleotide; (3) transforming a cell by	
CC	transforming a cell with the polynucleotide; (4) a cell comprising the	
CC	recombinant DNA construct; (5) producing a plant comprising transforming	
CC	a plant cell with the polynucleotide, and regenerating a plant from the	
CC	transformed plant cell; (6) a plant comprising the recombinant DNA	
CC	construct; (7) a seed comprising the recombinant DNA construct; (8) an	
CC	isolated polynucleotide comprising a first nucleotide sequence, where the	
CC	first nucleotide sequence contains at least 30 nucleotides, and where the	
CC	first nucleotide sequence is comprised by another polynucleotide, where	
CC	the other polynucleotide includes the second, third, fourth, fifth or	
CC	sixth nucleotide sequence; (9) an isolated polypeptide having FT or Ap3	
CC	homologue activity, as described above; and (10) isolating a polypeptide	
CC	encoded by the polynucleotide comprising isolating the polypeptide from a	
CC	cell containing a recombinant DNA construct comprising the polynucleotide	
CC	operably linked to a regulatory sequence. The polynucleotides are useful	
CC	for floral development, e.g. engineering plant sterility/fertility,	
CC	flowering time, plant growth rate, inflorescence architecture, and tissue	
CC	culture morphology and the rate of cell division to enhance	
CC	transformation. The present sequence encodes an FT homologue from the	
CC	present invention.	
XX		
SQ	Sequence 850 BP; 292 A; 176 C; 159 G; 223 T; 0 U; 0 Other;	
	Query Match 3.0%; Score 68; DB 13; Length 850;	
	Best Local Similarity 71.2%; Pred. No. 7.8e-05;	
	Matches 89; Conservative 0; Mismatches 36; Indels 0; Gaps 0;	
QY	2118 TCGCCTTTGCTTTACCACTCTTTCCCTTTATCTTATTAATAAATGTTGGTCTCCACCA 2177	
Db		
	711 TCTCTATATATATACCTCTCTTTCACTCTATCAAAATATATAAGTTAATCTTTATTA 770	
QY	2178 CTGNCTCCCAA 2237	
Db		
	771 AA 830	
QY	2238 AAAAA 2242	
Db		
	831 AAAAA 835	
	RESULT 204	
	AAZ90632	
ID	AAZ90632 standard; DNA; 1690 BP.	
XX		
AC	AAZ90632;	
XX		
DT	13-JUN-2000 (first entry)	
XX		
DE	Human adipose tissue protein #2 encoding DNA.	
XX		
KW	Adipose tissue; obesity; diabetes; hyperlipemia; hypertension; human;	
KW	arteriosclerosis; hyperuricemia; sleep apnea syndrome; ds.	
XX		
OS	Homo sapiens.	
XX		
FH	Key Location/Qualifiers	
FT	5'UTR 1. .129	
FT	/*tag= a	
FT	CDS 130. .1224	

FT	3'UTR	/*tag= b
FT		1225. .1690
FT		/*tag= c
XX		
PN	JP2000037190-A.	
XX		
PD	08-FEB-2000.	
XX		
PF	23-JUL-1998; 98JP-00225228.	
XX		
PR	23-JUL-1998; 98JP-00225228.	
XX		
PA	(NISB) JAPAN TOBACCO INC.	
DR	WPI; 2000-306578/27.	
DR	P-PSDB; AAY67599.	
XX		
PT	A physiologically active protein specifically derived from mammal tissue.	
XX		
PS	Claim 16; Page 29-31; 50pp; Japanese.	
XX		
CC	The invention relates to identification of genes and proteins of adipose	
CC	tissue relating to obesity, particularly complications of visceral	
CC	obesity including diabetes, hyperlipemia, hypertension, arteriosclerosis,	
CC	hyperuricemia and sleep apnea syndrome. The genes (AAZ90631-633) and the	
CC	proteins (AAY67598-Y67600) are used in the genetic diagnosis, prevention	
CC	and treatment of adipose tissue related diseases	
XX		
SQ	Sequence 1690 BP; 345 A; 578 C; 489 G; 278 T; 0 U; 0 Other;	
	Query Match 3.0%; Score 68; DB 3; Length 1690;	
	Best Local Similarity 65.8%; Pred. No. 9.7e-05;	
	Matches 98; Conservative 0; Mismatches 51; Indels 0; Gaps 0;	
QY	2094 ACACATAATCATTCCTCCATCCATGATCGCCTTTGGCTTTTACCACCTCTTTCTTTATCTTAT 2153	
Db		
	1497 ACCCATCTGCATTGTTTTTAATTCCTTCCGGTTTTCTATCAATGTTACAGTTTTTTTTTAA 1556	
QY	2154 TAATAAAAAATGTTGGTCTCCACCACTGNCTCCCAAAAAAAAAAAAAAAAAAAAAA 2213	
Db		
	1557 TAAAGCAAGTTATTTCATTTCAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1616	
QY	2214 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242	
Db		
	1617 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1645	
	RESULT 205	
	ADL08408	
ID	ADL08408 standard; DNA; 4130 BP.	
XX		
AC	ADL08408;	
XX		
DT	06-MAY-2004 (first entry)	
XX		
DE	Human cancer suppressor gene PPI4434.	
XX		
KW	ds; gene; cancer suppressor; cancer.	
XX		
OS	Homo sapiens.	
XX		
FH	Key Location/Qualifiers	
FT	CDS 483. .1181	
FT	/*tag= a	
XX		
PN	CN1403479-A.	
XX		
PD	19-MAR-2003.	
XX		
PF	12-SEP-2001; 2001CN-00126727.	
XX		
PR	12-SEP-2001; 2001CN-00126727.	
XX		

from primed or non-primed seeds from variety DP50B, mature seeds from variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium tissue, developing fibres, carpel walls and septa from variety Nucotton33B. The invention also relates to substantially purified proteins or their fragments encoded by nucleic acid molecules of the invention, and to transformed plants having a nucleic acid construct comprising a nucleic acid of the invention. The cotton ESTs are useful as molecular tags to isolate genetic regions, to isolate genes, to map genes, to determine gene function and to determining whether genes are members of a particular gene family. The nucleic acid molecules may be used for isolating a variety of agronomically significant genes associated with plant growth, quality, yield, and could also serve as links in metabolic and catabolic pathways. The nucleic acid molecules are also useful for identifying genes important in initiating and maintaining seed germination or that may be used to mitigate stresses encountered during seed germination. The ESTs additionally enable the acquisition of promoters and cis-regulatory elements which will be useful to express agronomically significant genes in these tissues and/or other tissues, and also permits the acquisition of molecular markers useful in breeding schemes, genetic and molecular mapping, and in cloning of agronomically significant genes. The nucleic acid molecules are further useful for detecting the expression level or pattern of a protein or mRNA and for detecting the presence or quantity of a protein by tissue printing. The present sequence represents a specifically claimed EST isolated from a cotton variety Nucotton33B gynoecium tissue cDNA library (LIB3829). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the US patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340

sequence 420 BP; 186 A; 13 C; 91 G; 129 T; 0 U; 1 Other;

Query Match	3.0%;	Score 67.8;	DB 13;	Length 420;
Best Local Similarity	66.7%;	Pred. No. 6.9e-05;		
Matches 96;	Conservative	0;	Mismatches 48;	Indels 0;
				Gaps 0;

	Qy	Db	Qy	Db
2099	TAATCATTTCCATCCAATGATCGCCTTTTGCTTTACCACTCTTTCCCTTTATCTTATTAAATA	2158	TAATCATTTCCATCCAATGATCGCCTTTTGCTTTACCACTCTTTCCCTTTATCTTATTAAATA	2158
168	TCATTCTTAATTAAAAATTACAATTTAAACAGTTCCCAACCCCCCCCCCTTAACCTTAATAAAAA	109	TCATTCTTAATTAAAAATTACAATTTAAACAGTTCCCAACCCCCCCCCCTTAACCTTAATAAAAA	109
2159	AAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA	2218	AAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA	2218
108	AAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA	49	AAAAATGTTGGTCTCCACCACTGCTCCCAAAAAA	49

RESULT 208	
ABV56874	
ID	ABV56874 standard; cDNA; 429 BP.
XX	XX
AC	ABV56874;
XX	XX
DT	17-SEP-2002 (first entry)
XX	XX
DE	Human prostate expression marker cDNA 56865.

PR 18-JUL-2000; 2000US-0219007P.
PR 13-DEC-2000; 2000US-0255281P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Schlegel R, Endege WO, Monahan JE;
PI
XX WPI; 2001-662795/76.
DR

Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.

Claim 1; Page 10957; 11750pp; English.

The invention relates to an isolated nucleic acid molecule (I) comprising a nucleotide sequence given in Tables 1-9 (ABV0010-ABV62213) of the specification or its complement. (I) is useful for: (a) assessing whether a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy of a test compound to inhibit prostate cancer in a patient; (d) assessing the efficacy of a therapy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient. (I) is also useful as a pharmacodynamic or pharmacogenomic marker

Sequence 429 BP: 193 A; 77 C; 60 G; 99 T; 0 U; 0 Other; XX
SQ

Query Match 3.0%; Score 67.8; DB 5; Length 429;
Best Local Similarity 72.5%; Pred. No. 7e-05;
Matches 87; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

[illegible]

RESULT 209
ACN51258/c
ID ACN51258 standard; cDNA; 554 BP.
XX
AC AC ACN51258;

Cotton androecium tissue EST Clone ID: LTB3828-013-Q1-N6-B2, SEQ:6039.

Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;
variety Nucotton3B; library LTB3828; molecular tag; molecular marker;
genetic mapping; molecular mapping; seed germination; plant growth;
plant quality; plant yield; plant breeding; tissue printing; ss.

PA (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.

central nervous system cancer; bladder cancer; pancreatic cancer; cervical cancer; melanoma; leukaemia; hybridisation probe; chromosome identification; chromosome mapping; gene mapping; gene therapy; cytostatic; gene; ss.

Homo sapiens.
WO2004030615-A2.
15-APR-2004.
29-SEP-2003; 2003WO-US028547.
02-OCT-2002; 2002US-0414971P.
(GETH) GENENTECH INC.
Wu TD, Zhang Z, Zhou Y;
WPI; 2004-347921/32.
P-PSDB; ABM81217.

New tumor-associated antigenic target polypeptides and nucleic acids, useful in preparing a medicament for treating or detecting a proliferative disorder, e.g. breast, lung, colorectal, ovarian or prostate cancer or tumor.

Claim 1; SEQ ID NO 3133; 7273pp; English.

The invention relates to human tumour-associated antigenic target (TAT) polypeptides, and their related nucleic acids. The TAT polypeptides are overexpressed in cancer tissues compared to normal tissues, and may thus serve as effective targets for the diagnosis and treatment of cancer in mammals. The invention also relates to nucleic acid and polypeptide sequences at least 80% identical to the TAT nucleic acids and polypeptides; expression vectors and host cells comprising a TAT nucleic acid; an antibody specific for a TAT polypeptide; a peptide or organic molecule which binds to a TAT polypeptide; fusion proteins comprising a TAT polypeptide; and methods and compositions for the treatment or diagnosis of cancer in mammals. TAT polypeptides, nucleic acids, antibodies, antagonists, binding molecules and compositions are useful for diagnosing or treating a cell proliferative disorder associated with increased TAT expression, particularly cancers such as breast cancer, colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder cancer, pancreatic cancer, cervical cancer, cancers of the central nervous system, melanoma and leukaemia. TAT nucleic acids may further be used as hybridisation probes, in chromosome and gene mapping, in chromosome identification and in gene therapy. The present sequence represents a TAT nucleic acid of the invention

Sequence 2126 BP; 442 A; 690 C; 610 G; 384 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.8; DB 13; Length 2126;
Best Local Similarity 85.2%; Pred. No. 0.00012;
Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Oy 2155 AATAAAATGTTGGTCTCCACCACACTGNCTCCAAAAA AAAAAAAAAA 2214
Db 2012 AATACAGTTGTGGCCTCCCGCCTCCCTCAAAAAA AAAAAAAAAA 2071

Oy 2215 AAAAAA AAAAAAAAAA AAAAAAAAAA 2242
Db 2072 AAAAAA AAAAAAAAAA AAAAAAAAAA 2099

RESULT 221
ADP23018
ID ADP23018 standard; cDNA; 2126 BP.
XX AC ADP23018;
XX DT 18-NOV-2004 (first entry)
XX

DE	XX	PRO polypeptide encoding cDNA SEQ ID NO:112.
KW	XX	ss; gene; PRO; antiinflammatory; antiarthritic; antirheumatic;
KW	XX	immunosuppressive; osteopathic; antidiabetic; dermatological;
KW	XX	antipsoriatic; antiallergic; antiasthmatic; hepatotropic; respiratory;
KW	XX	gene therapy; immune system.
OS	XX	Unidentified.
XX	XX	WO2004041170-A2.
XX	XX	21-MAY-2004.
XX	XX	30-OCT-2003; 2003WO-US034312.
PF	XX	01-NOV-2002; 2002US-0423394P.
PR	XX	(GETH) GENENTECH INC.
PA	XX	Clark H, Schoenfeld J, Van Lookeren M, Williams PM, Wood WI;
PI	XX	Wu TD;
PI	XX	WPI; 2004-419628/39.
DR	XX	P-FSDB; ADP23019.
DR	XX	New PRO polypeptides and polynucleotides, useful for treating e.g.
XX	XX	erythematosus, rheumatoid arthritis, diabetes mellitus, immune-mediated
PT	XX	renal disease, or demyelinating diseases of the central or peripheral
PT	XX	nervous system.
PT	XX	Claim 1; SEQ ID NO 112; 2940pp; English.
PS	XX	The invention relates to a novel isolated nucleic acid and the PRO
CC	XX	polypeptide encoded by it. A protein of the invention has
CC	XX	antiinflammatory, antiarthritic, antirheumatic, immunosuppressive,
CC	XX	osteopathic, antidiabetic, dermatological, antipsoriatic, antiallergic,
CC	XX	antiasthmatic, hepatotropic, and respiratory activity. A polynucleotide
CC	XX	of the invention may have a use in gene therapy. The PRO polypeptide, its
CC	XX	agonist, antagonist, or antibody that specifically binds to the
CC	XX	polypeptide is useful for treating an immune related disorder such as
CC	XX	systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC	XX	juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an
CC	XX	idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
CC	XX	vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC	XX	thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC	XX	disease, a demyelinating disease of the central or peripheral nervous
CC	XX	system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,
CC	XX	a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
CC	XX	disease, infectious or autoimmune chronic active hepatitis, primary
CC	XX	biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
CC	XX	inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
CC	XX	disease, an autoimmune or immune-mediated skin disease, a bullous skin
CC	XX	disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
CC	XX	disease, asthma, allergic rhinitis, atopic dermatitis, food
CC	XX	hypersensitivity, urticaria, an immunologic disease of the lung,
CC	XX	eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
CC	XX	pneumonitis, a transplantation associated disease, graft rejection or
CC	XX	graft-versus-host disease. The present sequence encodes a PRO protein of
CC	XX	the invention.
XX	XX	Sequence 2126 BP; 442 A; 690 C; 610 G; 384 T; 0 U; 0 Other;
XX	XX	Query Match 3.0%; Score 67.8; DB 13; Length 2126;
XX	XX	Best Local Similarity 85.2%; Pred. No. 0.00012;
XX	XX	Matches 75; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY	QY	2155 AATAAAATGTTGGTCTCCACCACCTGNCCTCCCAAAAAAAAAAAAAAAAAAAAAA 2214
Db	Db	
QY	QY	2215 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db	Db	
QY	QY	2072 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2099
Db	Db	

PT preventing or treating hematopoietic or hematologic disorders, e.g.
PT anemia or hemophilia.
XX
PS Claim 1; SEQ ID NO 105; 1512pp; English.
XX
CC The invention comprises the amino acid and coding sequences of human
CC secreted proteins. The DNA and protein sequences of the invention are
CC useful for detecting, preventing, diagnosing, prognosticating, treating
CC or ameliorating: hematopoietic or haematological disorders (e.g. anaemia
CC and haemophilia); inflammatory disorders (e.g. inflammatory bowel disease
CC and Crohn's disease); neoplastic disease (e.g. cancer and leukaemia);
CC wound healing and disorders of epithelial cell proliferation; immune
CC disorders (e.g. autoimmune disorders and asthmatic disorders);
CC cardiovascular disorders (e.g. atherosclerosis and myocarditis);
CC infectious disease (e.g. HIV/AIDS); endocrine disorders (e.g. diabetes);
CC and gastrointestinal disorders (e.g. duodenal ulcers and
CC gastroenteritis). The present DNA sequence encodes a human secreted
CC protein of the invention.
XX
SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.6; DB 10; Length 575;
Best Local Similarity 66.0%; Pred. No. 8.5e-05;
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 2096 ACATAATCATTCATCCCAATGATCGCCTTTGCTTTACCACTCTTCTTTTATTATTATTA 2155
DB 415 ACCTTACCTTATGTGCGCTTTCTTCATGCTGATTTTAATCTGTATCCTTCACTGTAATA 474

QY 2156 ATAAAAATGTTGGTCTCCACCACTGNCCTCCAAAAA AAAAAAAAAAAAAAAAAA 2215
DB 475 AACTGTAACTATGAGTGCAACACTTAAAAA AAAAAAAAAAAAAAAAAA 534

QY 2216 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
DB 535 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 561

RESULT 228
ADF10596
ID ADF10596 standard; DNA; 575 BP.
XX
AC ADF10596;
XX
DT 12-FEB-2004 (first entry)
XX
DE Human secreted protein encoding sequence #49.
XX
KW H6EDM64; HBHAA05; HBJCR46; HBJKD16; HCMSX51; HCQBH72; HDPPQ30; HE2CM39;
KW HE9EA10; HGBHP91; HLDQU79; Cytostatic; Hepatotrophic; Antidiabetic;
KW Antiinflammatory; neuroprotective; Anti-HIV; Vulnerary; Gynecological;
KW Antiinfertility; Gene therapy; gastrointestinal disorder; cancer;
KW Alzheimer's disease; chromosome identification; ds.
XX
OS Homo sapiens.
XX
PN WO200299085-A2.
XX
PD 12-DEC-2002.
XX
PF 26-MAR-2002; 2002WO-US009135.
XX
PR 27-MAR-2001; 2001US-0278650P.
PR 12-SEP-2001; 2001US-00950082.
PR 12-SEP-2001; 2001US-00950083.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2003-221310/21.
XX
PT New human secreted polypeptides for diagnosing and treating neural,

PT immune system, muscular, reproductive, gastrointestinal, cardiovascular,
PT renal, and proliferative disorders and cancerous diseases.
XX
PS Claim 7; SEQ ID NO 59; 855pp; English.
XX
CC The present invention relates to an isolated polypeptide chosen from 123
CC human secreted proteins, such as, H6EDM64, HBHAA05, HBJCR46, HBJKD16,
CC HCMSX51, HCQBH72, HDPPQ30, HE2CM39, HE9EA10, HGBHP91 and HLDQU79. The
CC polypeptides are useful for the preparation of a diagnostic or
CC pharmaceutical composition for diagnosing or and are useful for treating
CC or preventing diseases or conditions, such as neural, immune system,
CC muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,
CC renal, proliferative disorders and cancerous diseases and conditions. The
CC polypeptides have immune activity, chemotactic activity, and binding
CC activity to treat and prevent neuronal damage which occurs in certain
CC neuronal disorders or neuro-degenerative conditions such as Alzheimer's
CC disease, Parkinson's disease, and acquired immunodeficiency syndrome
CC (AIDS)-related complex, and to prevent skin aging due to sunburn by
CC stimulating keratinocyte growth. The molecules are also useful to
CC modulate mammalian characteristics including .The encoding sequences are
CC useful for chromosome identification, radiation hybrid mapping, in gene
CC therapy, for identifying individuals from minute biological samples, as
CC additional DNA markers for restriction fragment length polymorphism
CC (RFLP), in forensic biology, molecular weight markers on Southern gels,
CC as diagnostic probes for the presence of a specific mRNA in a particular
CC cell type, to raise anti-DNA antibodies using DNA immunization
CC techniques, and as an antigen to elicit an immune response. The present
CC sequence represents a human secreted protein encoding sequence of the
CC invention.
XX
SQ Sequence 575 BP; 200 A; 106 C; 119 G; 150 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.6; DB 10; Length 575;
Best Local Similarity 66.0%; Pred. No. 8.5e-05;
Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 2096 ACATAATCATTCATCCCAATGATCGCCTTTGCTTTACCACTCTTCTTTTATTATTATTA 2155
DB 415 ACCTTACCTTATGTGCGCTTTCTTCATGCTGATTTTAATCTGTATCCTTCACTGTAATA 474

QY 2156 ATAAAAATGTTGGTCTCCACCACTGNCCTCCAAAAA AAAAAAAAAAAAAAAAAA 2215
DB 475 AACTGTAACTATGAGTGCAACACTTAAAAA AAAAAAAAAAAAAAAAAA 534

QY 2216 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
DB 535 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 561

RESULT 229
ABZ67037
ID ABZ67037 standard; cDNA; 575 BP.
XX
AC ABZ67037;
XX
DT 26-MAR-2003 (first entry)
XX
DE Human secreted protein encoding cDNA SEQ ID NO 157.
XX
KW Human; secreted protein; nootropic; neuroprotective; cytostatic;
KW virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;
KW vulnerary; antibacterial; antiparkinsonian; antiscikling; antianaemic;
KW antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
KW antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant;
KW antifungal; antiparasitic; cardiant; immune disorder; infection; vaccine;
KW cardiovascular disorder; neurological disease; nephrotropic;
KW gene therapy; gene; chromosome 17q11.1; ds.
XX
OS Homo sapiens.
XX
PN WO200277186-A2.
XX
PD 03-OCT-2002.

CC	represents a TAT nucleic acid of the invention
XX	
SQ	Sequence 1194 BP; 352 A; 258 C; 310 G; 274 T; 0 U; 0 Other;
	Query Match 3.0%; Score 67.6; DB 13; Length 1194;
	Best Local Similarity 66.0%; Pred. No. 0.00011;
	Matches 97; Conservative 0; Mismatches 50; Indels 0; Gaps 0;
QY	2096 ACATAATCATTCATCCATCCATGATCGCCTTTGCTTTTACCACTCTTTCCCTTTATCTTATTA 2155
Db	1045 AACTATATTTTATGCTACTTTCTCTGTTTGCACTACTACTTTTATTAACGATGTTA 1104
QY	2156 ATAAAAATGTTGGTCTCCACCACTGNCCTCCAAAAA 2215
Db	1105 AATAAAAAA 1164
QY	2216 AAAAAAAAAAAAAAAAAAAAAA 2242
Db	1165 AAAAAAAAAAAAAAAAAAAAAA 1191
RESULT 234	
AAC98202	
ID	AAC98202 standard; cDNA; 1639 BP.
XX	
AC	AAC98202;
XX	
DT	09-MAR-2001 (first entry)
XX	
DE	Human colon cancer antigen nucleotide sequence SEQ ID NO:212.
XX	Human; colon cancer; colon cancer antigen; diagnosis; detection;
KW	identification; cytostatic; cardioactive; neuroprotective; vulnerary;
KW	immunomodulatory; muscular; gynaecological; gastrointestinal;
KW	nephrotropic; antiinfective; antibacterial; gene therapy; wound;
KW	neural disorder; immune system disorder; muscular disorder;
KW	reproductive disorder; gastrointestinal disorder; renal disorder;
KW	infectious disease; cardiovascular disorder; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200055351-A1.
XX	
PD	21-SEP-2000.
XX	
PF	08-MAR-2000; 2000WO-US005883.
XX	
PR	12-MAR-1999; 99US-0124270P.
XX	
PA	(HUMA-) HUMAN GENOME SCI INC.
XX	
PI	Rosen CA, Ruben SM;
XX	
DR	WPI; 2000-587534/55.
DR	P-PSDB; AAB53445.
XX	
PT	Colon cancer associated gene sequences, referred to as colon cancer
PT	antigens, useful for the treatment, prevention, and diagnosis of colon
PT	disorders such as colon cancer.
XX	
PS	Claim 1; Page 636; 2104pp; English.
XX	
CC	AAC97991 to AAC98763 encode the human colon cancer associated proteins,
CC	called human colon cancer antigens, given in AAB53234 to AAB54006. The
CC	human colon cancer antigens can have cytostatic, cardioactive, muscular;
CC	neuroprotective, immunomodulatory, gynaecological, gastrointestinal,
CC	vulnerary, nephrotropic, antiinfective and antibacterial activities, and
CC	can be used in gene therapy. The colon cancer antigen polynucleotides,
CC	proteins and antibodies to the proteins are useful for the prevention,
CC	treatment and diagnosis of colon disorders, such as colon cancer. The
CC	polynucleotides may be used in diagnostics and research, such as for
CC	chromosome identification, and as hybridisation probes. The proteins may
CC	also be used to prevent diseases such as neural disorders, immune system

DR WPI; 2001-662795/76.
XX
PT Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer.
XX
PS Claim 1; Page 10934; 11750pp; English.
XX
CC The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for: (a) assessing whether
CC a patient is afflicted with prostate cancer; (b) monitoring the
CC progression of prostate cancer in a patient; (c) assessing the efficacy
CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
CC determining whether prostate cancer has metastasized in a patient; (h)
CC assessing the aggressiveness or indolence of prostate cancer in a patient
CC ; (I) is also useful as a pharmacodyanamic or pharmacogenomic marker
XX
SQ Sequence 453 BP; 195 A; 131 C; 81 G; 46 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.4; DB 5; Length 453;
Best Local Similarity 68.7%; Pred. No. 8.7e-05;
Matches 92; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

QY 2109 ATCCAATGATCGCCCTTGTCTTTACCACCTCTTTCTCTTTATCTTATTAATAAAATGTTGG 2168
Db 47 ATCAATATACCGTATACTTTAGAAAATGCTCAGTGTCTTTATTAATAAAATGTTGA 106

QY 2169 TCTCCACCACCTGCTCCCAAAAAA 2242
Db 107 TGGTTTGAAAAATTAAAAA 166

QY 2229 AAAAAA 2242
Db 167 AAAAAA 180

RESULT 239
AAH70126/C
ID AAH70126 standard; cDNA; 545 BP.
XX
AC AAH70126;
XX
DT 19-SEP-2001 (first entry)
XX
DE Human cervical cancer marker nucleic acid 1400.
XX
KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX
OS Homo sapiens.
XX
PN WO200142467-A2.
XX
PD 14-JUN-2001.
XX
PF 08-DEC-2000; 2000WO-US033312.
XX
PR 08-DEC-1999; 99US-0169681P.
PR 21-DEC-1999; 99US-0171350P.
PR 14-MAR-2000; 2000US-0189315P.
PR 12-MAY-2000; 2000US-0203791P.
PR 09-JUN-2000; 2000US-0210600P.
PR 21-JUL-2000; 2000US-0220114P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Deeds J, Berger A, Zhao X;
XX
DR WPI; 2001-375006/39.
XX

PT New isolated nucleic acid for diagnosing and treating cervical cancer and
PT for assessing and detecting compounds for treating the cancer.
XX
PS Claim 1; Page 319-320; 1051pp; English.
XX
CC The invention relates to novel genes (AAH68727-AAH73383) associated with
CC cervical cancer with cytostatic activity. The nucleic acids and encoded
CC polypeptides are useful: to assess if a patient is afflicted with
CC cervical cancer or has a pre-malignant condition; to monitor the
CC progression of cervical cancer or a premalignant condition in a patient;
CC and to select and/or assess the efficacy of a compound or therapy for
CC inhibiting cervical cancer in a patient. The nucleic acids may also be
CC useful for gene therapy
XX
SQ Sequence 545 BP; 200 A; 40 C; 23 G; 209 T; 0 U; 73 Other;

Query Match 3.0%; Score 67.4; DB 4; Length 545;
Best Local Similarity 55.1%; Pred. No. 9.2e-05;
Matches 98; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 2065 TTTGCTTTCTAGTCTCAAGTGTCTCGTGACACATAATCATTCACCATGATCGCCTT 2124
Db 275 TTNCCCTNNNANTTTNNATNTTTTTTTTTTTTGNANTTTTTTCCCCCAANTTTTTTTT 216

QY 2125 TGCTTTTACCACCTTTCTCTTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTGNCTC 2184
Db 215 NNNNTTTTTTTTTNNNTTTTNAANTTTTTTTNAAAAAANTTTTTTTTNAANTTTTTT 156

QY 2185 CCAAAAAA 2242
Db 155 NAAAAA 98

RESULT 240
ACN87636/C
ID ACN87636 standard; DNA; 637 BP.
XX
AC ACN87636;
XX
DT 02-DEC-2004 (first entry)
XX
DE Breast cancer related marker, seq id 8786.
XX
KW Cancer; breast; tumour; cytostatic; marker; detection; therapy; ds.
XX
OS Homo sapiens.
XX
PN US2003099974-A1.
XX
PD 29-MAY-2003.
XX
PF 18-JUL-2002; 2002US-00198846.
XX
PR 18-JUL-2001; 2001US-0306220P.
XX
PA (MILL-) MILLENNIUM PHARM INC.
XX
PI Lillie J, Xu Y, Wang Y, Steinmann K;
XX
DR WPI; 2003-787014/74.
XX
PT Novel isolated polypeptide associated with breast cancer, useful for
PT detecting presence of polypeptide in sample, as a marker for breast
PT cancer.
XX
PS Disclosure; SEQ ID NO 8786; 36pp; English.
XX
CC The invention relates to an isolated polypeptide (I) associated with
CC breast cancer which is encoded by a nucleic acid molecule comprising a
CC nucleotide sequence (S1). Further disclosed is an antibody that binds to
CC the polypeptide of the invention. The activity of the polypeptide of the
CC invention may be described as cytostatic. The antibody is useful for
CC detecting the presence of (I) in a sample. Nucleic acid molecules of the

infertility; pregnancy disorder; anovulation; polycystic ovary syndrome; PCOS; ovarian cyst; dysmenorrhea; endocrine disorder; infection; inflammatory condition; immune disorder; blood disorder; cardiovascular disorder; respiratory disorder; neurological disorder; gastrointestinal disorder; urinary system disorder; drug screening; gene therapy; chromosome mapping; forensic analysis; antibody preparation; cytostatic; immunomodulatory; neuroprotective; antiinflammatory; gynaecological; reproductive; gene; ss.

Homo sapiens.

WO200200677-A1.

03-JAN-2002.

07-JUN-2001; 2001WO-US018569.

07-JUN-2000; 2000US-0209467P.

(HUMA-) HUMAN GENOME SCI INC.

Birse CE, Rosen CA;

WPI; 2002-147878/19.

P-PSDB; ABP41088.

Isolated nucleic acid molecules encoding novel ovarian polypeptides, useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian cancer), immune disorders, cardiovascular disorders and neurological diseases.

Claim 1; SEQ ID NO 45; 2922pp; English.

The invention relates to 2175 novel human ovarian antigens (ABP41054-ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also encompasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to recombinant vectors and host cells comprising human ovarian antigen polynucleotides, antibodies against human ovarian antigens, and the use of ovarian antigen polynucleotides and polypeptides in diagnosing, treating, prognosing or preventing various ovarian cancer and/or breast-related disorders. Such conditions include ovarian cancer and breast cancer, and metastatic tumours of ovarian or breast origin, reproductive system disorders (e.g., infertility, disorders of pregnancy, anovulation, polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and vaginitis), immune disorders (e.g., congenital and acquired immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus), blood-related disorders (e.g., anaemia), cardiovascular disorders, respiratory disorders, neurological disorders, gastrointestinal disorders and urinary system disorders. Ovarian antigen polypeptides and polynucleotides may also be used in screening for compounds which modulate ovarian antigen expression or activity. The polynucleotides may further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the polypeptides may be used as food additives or to prepare antibodies useful in disease diagnosis, drug targeting and phenotyping. The present sequence represents cDNA encoding a human ovarian antigen of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences

Sequence 749 BP; 163 A; 167 C; 209 G; 205 T; 0 U; 5 Other;

Query Match	3.0%;	Score 67.2;	DB 6;	Length 749;
Best Local Similarity	77.1%;	Pred. No. 0.00011;		
Matches	81;	Conservative	0;	Mismatches 24; Indels 0; Gaps 0

QY	2138	TTTCCCTTTTATCTTATTATAAAAAATGTTGGTGCTCCACCACACTGNCTCCCAAAAAAAAAA	219
Db	114	TTCCCAGTTATGAATTATAAAAAATCAATGGTTTCCACAAAAAIAAAAAAAAAAAAAAA	55

ID ABQ54594 standard; cDNA; 1058 BP.
XX
AC ABQ54594;
XX
DT 22-AUG-2002 (first entry)
XX
DE Human ovarian antigen HCOMW35 cDNA, SEQ ID NO:474.
XX
KW Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
KW ovarian cancer; breast cancer; tumour; reproductive system disorder;
KW infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
KW PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
KW inflammatory condition; immune disorder; blood disorder;
KW cardiovascular disorder; respiratory disorder; neurological disorder;
KW gastrointestinal disorder; urinary system disorder; drug screening;
KW gene therapy; chromosome mapping; forensic analysis;
KW antibody preparation; cytostatic; immunomodulatory; neuroprotective;
KW antiinflammatory; gynaecological; reproductive; chromosome 22q13.31;
KW gene; ss.
XX
OS Homo sapiens.
XX
PN WO200200677-A1.
XX
PD 03-JAN-2002.
XX
PF 07-JUN-2001; 2001WO-US018569.
XX
PR 07-JUN-2000; 2000US-0209467P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Birse CE, Rosen CA;
XX
DR WPI; 2002-147878/19.
DR P-PSDB; ABP41517.
XX
PT Isolated nucleic acid molecules encoding novel ovarian polypeptides,
PT useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian
PT cancer), immune disorders, cardiovascular disorders and neurological
PT diseases.
XX
PS Claim 1; SEQ ID NO 474; 2922pp; English.
XX
CC The invention relates to 2175 novel human ovarian antigens (ABP41054-
CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also
CC encompasses polypeptides 90% identical and polynucleotides 95% identical
CC to the sequences of the invention. The invention additionally relates to
CC recombinant vectors and host cells comprising human ovarian antigen
CC polynucleotides, antibodies against human ovarian antigens, and the use
CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
CC treating, prognosing or preventing various ovary and/or breast-related
CC disorders. Such conditions include ovarian cancer and breast cancer, and
CC metastatic tumours of ovarian or breast origin, reproductive system
CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine
CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
CC vaginitis), immune disorders (e.g., congenital and acquired
CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
CC respiratory disorders, neurological disorders, gastrointestinal disorders
CC and urinary system disorders. Ovarian antigen polypeptides and
CC polynucleotides may also be used in screening for compounds which
CC modulate ovarian antigen expression or activity. The polynucleotides may
CC further be used for gene therapy, chromosome mapping, in the
CC identification of individuals and in forensic analysis, and the
CC polypeptides may be used as food additives or to prepare antibodies
CC useful in disease diagnosis, drug targeting and phenotyping. The present
CC sequence represents cDNA encoding a human ovarian antigen of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX
SQ Sequence 1058 BP; 288 A; 256 C; 276 G; 235 T; 0 U; 3 Other;

Query Match 3.0%; Score 67.2; DB 6; Length 1058;
Best Local Similarity 84.3%; Pred. No. 0.00013;
Matches 75; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 2154 TAATAAAAAATGTTGGTCTCCACCACCTGNCCTCCAAAAA 2213
Db 914 TCAATAAAAAATGTTGGTTTCCAGCAAAAAA 973

QY 2214 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db 974 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1002

RESULT 253
AAC89723
ID AAC89723 standard; cDNA; 1091 BP.
XX
AC AAC89723;
XX
DT 09-MAR-2001 (first entry)
XX
DE Maize ZmGnsN1-1 glucanase cDNA.
XX
KW Maize; ZmGnsN1-1; glucanase; plant growth; disease resistance;
KW transgenic plant; mutation detection; expression analysis; ss.
XX
OS Zea mays.
XX
PN WO200073470-A2.
XX
PD 07-DEC-2000.
XX
PF 08-JUN-1999; 99WO-US012761.
XX
PR 26-MAY-1999; 99US-00320076.
XX
PA (PION-) PIONEER HI-BRED INT INC.
XX
PI Simmons CR;
XX
DR WPI; 2001-061547/07.
DR P-PSDB; AAB50354.
XX
PT New exo- and endo-glucanase polypeptides and polynucleotides useful in
PT e.g. cell wall elongation or expansion, enhancing silage or forage crop
PT digestibility, improving plant defense against pathogens and stress.
XX
PS Example 3; Page 90-91; 108pp; English.
XX
CC The present sequence is one of a number of glucanase polynucleotides
CC isolated from Zea mays. The nucleic acids encoding for glucanases are
CC useful for improving cell wall elongation or expansion and altering the
CC growth of a plant or improving kernel growth rates, enhancing silage or
CC forage crop digestibility, plant defense against pathogens and stress,
CC flowering, fruit and seed maturation, abscission and senescence, and
CC tissue differentiation. The nucleic acids may also be used as probes or
CC amplification primers in the detection, quantitation or isolation of gene
CC transcripts, and for detecting deficiencies in mRNA levels in screening
CC for a desired transgenic plant. They can also be used for detecting gene
CC mutations, for monitoring upregulation of expression or changes in enzyme
CC activity in screening assays of compounds, and for detection of any
CC number of allelic variants of the gene, as molecular markers in plant
CC breeding programmes. The nucleic acids can be used for recombinant
CC expression of exo- or endo-glucanase polypeptides, and as immunogens in
CC preparing or screening antibodies. The proteins may also be used in
CC assays for enzyme agonists or antagonists, or as immunogens or antigens
XX to obtain antibodies immunoreactive with the protein
SQ Sequence 1091 BP; 299 A; 297 C; 276 G; 219 T; 0 U; 0 Other;

CC determining the expression of a gene in both samples and comparing the
CC expression of the gene in both soft tissue samples, where a higher level
CC of protein expression in the first soft tissue sample indicates the
CC presence of soft tissue sarcoma. The method of the invention has
CC cytostatic applications and may be useful for detecting soft tissue
CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
CC acid sequences may be useful in diagnostic and screening applications.
CC The current sequence is that of a human soft tissue sarcoma-upregulated
CC DNA of the invention. The current sequence is not shown within the
CC specification per se but was submitted in CD format by the inventor.
XX
SQ Sequence 2007 BP; 380 A; 536 C; 585 G; 506 T; 0 U; 0 Other;

Query Match 3.0%; Score 67.2; DB 12; Length 2007;
Best Local Similarity 74.3%; Pred. No. 0.00015;
Matches 84; Conservative 0; Mismatches 29; Indels 0; Gaps 0;
QY 2130 TACCACCTCTTCTTTATCTTATTAATAAAATGTTGGTCTCCACCCTGCTCCCAA 2189
Db 513 TAGCCCTCAGGCCTTCTTTCTTATCCAAATAAAATGTTCTTAATGAGAAAAA 454
QY 2190 AAAAAA 2242
Db 453 AAAAAA 401

RESULT 256
ADL37542/C
ID ADL37542 standard; DNA; 346 BP.
XX ADL37542;
AC
XX 20-MAY-2004 (first entry)
XX Human ovarian cancer DNA marker #11432.
DE
XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX
OS Homo sapiens.
XX WO200170979-A2.
PN
XX
PD 27-SEP-2001.
XX
XX 21-MAR-2001; 2001WO-US009126.

PR 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Lee J, Lillie J;

XX WPI; 2001-611502/70.

XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
XX cancer cells as compared to their normal non-cancerous ovarian cells are
XX used to characterize stage, grade, histological type of ovarian cancer.

XX Disclosure; SEQ ID NO 11432; 106pp; English.

XX The invention relates to nucleic acid markers which are overexpressed in
XX ovarian cancer cells as compared to their expression in normal (i.e. non-
XX cancerous) ovarian cells. The invention also relates to polypeptides
XX encoded by the markers, antibodies that selectively bind to the
XX polypeptides, a method of inhibiting ovarian cancer in a patient at risk
XX of developing ovarian cancer involving inhibiting expression of a gene
XX corresponding to a marker of the invention and a method of treating a
XX patient afflicted with ovarian cancer comprising providing to cells of

CC the patient an antisense oligonucleotide complementary to a marker of the
CC invention. The markers are useful for assessing if a patient is afflicted
CC with ovarian cancer, which involves comparing the level of expression of
CC a marker in a patient sample and a normal level of expression of the
CC marker in a control non-ovarian cancer sample. A difference between the
CC expression levels indicates ovarian cancer. The level of expression of a
CC marker corresponds to a secreted protein or to a transcribed
CC polynucleotide or its portion. The level of expression of the marker is
CC assessed by detecting the presence in the sample, a protein or protein
CC fragment corresponding to the marker. The presence of protein or protein
CC fragment is detected using an antibody that specifically binds with the
CC protein or protein fragment. Alternatively, the level of expression of
CC the marker is assessed by detecting the presence of a transcribed
CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer in a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention.
XX
SQ Sequence 346 BP; 81 A; 27 C; 47 G; 139 T; 0 U; 52 Other;

Query Match 3.0%; Score 67; DB 5; Length 346;
Best Local Similarity 54.7%; Pred. No. 9.8e-05;
Matches 94; Conservative 0; Mismatches 78; Indels 0; Gaps 0;
QY 2071 TTCTAGGTCCTCAAGTCTCGTGACACATAATCATTCATCCATGATCGCTTTGCTTT 2130
Db 244 TTNTTAAANNNNANCGGGGGGCCNNTTTCNTTNTCNAANATTTTTTTTNTTTT 185
QY 2131 ACCACTCTTCTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCCTGCTCCCAA 2190
Db 184 NCCCCCCCNANTTTTTGGNANTTTNANTATNCNNNNCCCCNNAAAAA 125
QY 2191 AAAAAA 2242
Db 124 AAAAAA 73

RESULT 257
ADI72399/C
ID ADI72399 standard; DNA; 346 BP.

XX ADI72399;

XX 20-MAY-2004 (first entry)

XX Human ovarian cancer DNA marker #5141.

XX Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.

XX Homo sapiens.

XX WO200170979-A2.

XX 27-SEP-2001.

XX 21-MAR-2001; 2001WO-US009126.

XX 21-MAR-2000; 2000US-0191031P.

XX 25-MAY-2000; 2000US-0207124P.

XX 15-JUN-2000; 2000US-0211940P.

XX 07-JUL-2000; 2000US-0216820P.

XX 25-JUL-2000; 2000US-0220661P.

XX 21-DEC-2000; 2000US-0257672P.

XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

XX Lee J, Lillie J;

Wed Feb 16 11:37:55 2005

OS Homo sapiens.
XX WO200170979-A2.
PN 27-SEP-2001.
XX 21-MAR-2001; 2001WO-US009126.
XX 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
PI WPI; 2001-611502/70.
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT cancer cells as compared to their normal non-cancerous ovarian cells are
PT used to characterize stage, grade, histological type of ovarian cancer.
XX
PS Disclosure; SEQ ID NO 17779; 106pp; English.
XX
CC The invention relates to nucleic acid markers which are overexpressed in
CC ovarian cancer cells as compared to their expression in normal (i.e. non-
CC cancerous) ovarian cells. The invention also relates to polypeptides
CC encoded by the markers, antibodies that selectively bind to the
CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk
CC of developing ovarian cancer involving inhibiting expression of a gene
CC corresponding to a marker of the invention and a method of treating a
CC patient afflicted with ovarian cancer comprising providing to cells of
CC the patient an antisense oligonucleotide complementary to a marker of the
CC invention. The markers are useful for assessing if a patient is afflicted
CC with ovarian cancer, which involves comparing the level of expression of
CC a marker in a patient sample and a normal level of expression of the
CC marker in a control non-ovarian cancer sample. A difference between the
CC expression levels indicates ovarian cancer. The level of expression of a
CC marker corresponds to a secreted protein or to a transcribed
CC polynucleotide or its portion. The level of expression of the marker is
CC assessed by detecting the presence in the sample, a protein or protein
CC fragment corresponding to the marker. The presence of protein or protein
CC fragment is detected using an antibody that specifically binds with the
CC protein or protein fragment. Alternatively, the level of expression of
CC the marker is assessed by detecting the presence of a transcribed
CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer in a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 461 BP; 142 A; 48 C; 96 G; 174 T; 0 U; 1 Other;
Query Match 3.0%; Score 67; DB 5; Length 461;
Best Local Similarity 65.5%; Pred. No. 0.00011;
Matches 97; Conservative 0; Mismatches 51; Indels 0; Gaps 0;
QY 2095 CACATAATCATTCATCCATGATCGCCTTTGCTTACCACCTCTTCCCTTTATCTTATT 2154
DB 297 CCCAAAAAATAAACCCTCCCTTTTATGATGATTCATCTTTTATCTTTT 238
QY 2155 AATAAAATGTTGGTCTCCACCACTGCTCCCAAAAAAATAAATAAATAAATAA 2214

Db 237 AATTTTTTTTTTTTTTTCGACAAAAAATAAATAAATAAATAAATAAATAA 178
QY 2215 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
DB 177 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 150
RESULT 260
ID ACN50622/c
XX ACN50622 standard; cDNA; 508 BP.
AC ACN50622;
XX 02-DEC-2004 (first entry)
DE Cotton mature seed EST Clone ID: LIB3827-002-Q1-N6-E9, SEQ:5403.
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; seed;
KW variety Coker 312 Boswell 96 Field; library LIB3827; molecular tag;
KW molecular marker; genetic mapping; molecular mapping; seed germination;
KW plant growth; plant quality; plant yield; plant breeding;
KW tissue printing; ss.
XX Gossypium hirsutum.
OS US2004123340-A1.
XX PN 24-JUN-2004.
PD 12-DEC-2001; 2001US-00021323.
XX 14-DEC-2000; 2000US-0255619P.
PR (DEIK/) DEIKMAN J.
XX (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
PS Claim 1; SEQ ID NO 5403; 34pp; English.
XX
CC The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DP50B, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for

ID ACD08142 standard; cDNA; 1925 BP.
XX AC ACD08142;
AC DT 12-AUG-2003 (first entry)
XX DE cDNA encoding novel human secreted protein #118.
DE XX Human; immunoglobulin G; IgG; fragment of crystallisation; Fc;
KW immune system disorder; haematopoietic cell disorder;
KW immunologic deficiency disorder; ataxia telangiectasia; HIV infection;
KW Wiskott-Aldrich disorder; thrombocytopenia; haemoglobinuria;
KW blood coagulation disorder; blood platelet disorder; autoimmune disorder;
KW Addison's disease; haemolytic anaemia; rheumatoid arthritis; dermatitis;
KW glomerulonephritis; Grave's disease; allergic reaction;
KW graft-versus-host disease; hyperproliferative disorder; neoplasm;
KW infectious disease; nervous system disease; spinal cord disorder;
KW head trauma; stroke; tissue regeneration; congenital defect; trauma;
KW wound; burn; incision; ulcer; age disease; osteoporosis;
KW periodontal disease; liver failure; catabolism; anabolism; metabolism;
KW food additive; preservative; secreted protein; gene; ss.
XX OS Homo sapiens.
XX US2003027132-A1.
PN PD 06-FEB-2003.
XX PF 04-SEP-1998; 98US-00148545.
XX PR 07-MAR-1997; 97US-0038621P.
PR 07-MAR-1997; 97US-0040161P.
PR 07-MAR-1997; 97US-0040162P.
PR 07-MAR-1997; 97US-0040163P.
PR 07-MAR-1997; 97US-0040333P.
PR 07-MAR-1997; 97US-0040334P.
PR 07-MAR-1997; 97US-0040336P.
PR 07-MAR-1997; 97US-0040626P.
PR 11-APR-1997; 97US-0043311P.
PR 11-APR-1997; 97US-0043312P.
PR 11-APR-1997; 97US-0043313P.
PR 11-APR-1997; 97US-0043314P.
PR 11-APR-1997; 97US-0043315P.
PR 11-APR-1997; 97US-0043568P.
PR 11-APR-1997; 97US-0043569P.
PR 11-APR-1997; 97US-0043576P.
PR 11-APR-1997; 97US-0043578P.
PR 11-APR-1997; 97US-0043580P.
PR 11-APR-1997; 97US-0043669P.
PR 11-APR-1997; 97US-0043670P.
PR 11-APR-1997; 97US-0043671P.
PR 11-APR-1997; 97US-0043672P.
PR 11-APR-1997; 97US-0043674P.
PR 23-MAY-1997; 97US-0047492P.
PR 23-MAY-1997; 97US-0047500P.
PR 23-MAY-1997; 97US-0047501P.
PR 23-MAY-1997; 97US-0047502P.
PR 23-MAY-1997; 97US-0047503P.
PR 23-MAY-1997; 97US-0047581P.
PR 23-MAY-1997; 97US-0047582P.
PR 23-MAY-1997; 97US-0047583P.
PR 23-MAY-1997; 97US-0047584P.
PR 23-MAY-1997; 97US-0047585P.
PR 23-MAY-1997; 97US-0047586P.
PR 23-MAY-1997; 97US-0047587P.
PR 23-MAY-1997; 97US-0047588P.
PR 23-MAY-1997; 97US-0047589P.
PR 23-MAY-1997; 97US-0047590P.
PR 23-MAY-1997; 97US-0047592P.
PR 23-MAY-1997; 97US-0047593P.
PR 23-MAY-1997; 97US-0047594P.
PR 23-MAY-1997; 97US-0047595P.
PR 23-MAY-1997; 97US-0047596P.

PR 23-MAY-1997; 97US-0047597P.
PR 23-MAY-1997; 97US-0047598P.
PR 23-MAY-1997; 97US-0047599P.
PR 23-MAY-1997; 97US-0047600P.
PR 23-MAY-1997; 97US-0047601P.
PR 23-MAY-1997; 97US-0047612P.
PR 23-MAY-1997; 97US-0047613P.
PR 23-MAY-1997; 97US-0047614P.
PR 23-MAY-1997; 97US-0047615P.
PR 23-MAY-1997; 97US-0047617P.
PR 23-MAY-1997; 97US-0047618P.
PR 23-MAY-1997; 97US-0047632P.
PR 23-MAY-1997; 97US-0047633P.
PR 06-JUN-1997; 97US-0048964P.
PR 06-JUN-1997; 97US-0048974P.
PR 22-AUG-1997; 97US-0056630P.
PR 22-AUG-1997; 97US-0056631P.
PR 22-AUG-1997; 97US-0056632P.
PR 22-AUG-1997; 97US-0056636P.
PR 22-AUG-1997; 97US-0056637P.
PR 22-AUG-1997; 97US-0056662P.
PR 22-AUG-1997; 97US-0056664P.
PR 22-AUG-1997; 97US-0056845P.
PR 22-AUG-1997; 97US-0056862P.
PR 22-AUG-1997; 97US-0056864P.
PR 22-AUG-1997; 97US-0056872P.
PR 22-AUG-1997; 97US-0056877P.
PR 22-AUG-1997; 97US-0056878P.
PR 22-AUG-1997; 97US-0056879P.
PR 22-AUG-1997; 97US-0056880P.
PR 22-AUG-1997; 97US-0056881P.
PR 22-AUG-1997; 97US-0056882P.
PR 22-AUG-1997; 97US-0056886P.
PR 22-AUG-1997; 97US-0056887P.
PR 22-AUG-1997; 97US-0056888P.
PR 22-AUG-1997; 97US-0056892P.
PR 22-AUG-1997; 97US-0056893P.
PR 22-AUG-1997; 97US-0056894P.
PR 22-AUG-1997; 97US-0056903P.
PR 22-AUG-1997; 97US-0056908P.
PR 22-AUG-1997; 97US-0056909P.
PR 22-AUG-1997; 97US-0056910P.
PR 22-AUG-1997; 97US-0056911P.
PR 05-SEP-1997; 97US-0057650P.
PR 05-SEP-1997; 97US-0057761P.
PR 06-MAR-1998; 98WO-US004482.
XX (RUBE/) RUBEN S M.
PA (ROSE/) ROSEN C A.
PA (FISC/) FISCHER C L.
PA (SOPP/) SOPPET D R.
PA (CART/) CARTER K C.
PA (BEDN/) BEDNARIK D R.
PA (ENDR/) ENDRESS G A.
PA (YUGG/) YU G.
PA (NIJJ/) NI J.
PA (FENG/) FENG P.
PA (YOUN/) YOUNG P E.
PA (GREE/) GREENE J M.
PA (FERR/) FERRIE A M.
PA (DUAN/) DUAN R.
PA (HUJJ/) HU J.
PA (FLOR/) FLORENCE K A.
PA (OLSE/) OLSEN H S.
PA (EBNE/) EBNER R.
PA (BREW/) BREWER L A.
PA (SHIY/) SHI Y.
XX

QY	2092	TGACACATAATCATTCACATCCAAATGATCGCCTTTGGCTTTTACCACCTCTTTCCCTTTTATCTT	2151
Db	299	TAAAAAAACATGTTAGAACTCCGCGCGCTAGGCTTTTGTCTTTTCTTTTCTTTT	240
QY	2152	ATTAATAAAAAATGTTGGTCTCCACCACTGNCCTCCCAAAAAAAA	2211
Db	239	ATACTCTAAAAAAGTATGCTCTCTCTTTTCAAAAAAAA	180
QY	2212	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2242
Db	179	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	149
RESULT 267			
AAI93716			
ID	AAI93716	standard; cDNA; 411 BP.	
XX	AC	AAI93716;	
XX	DT	06-NOV-2001 (first entry)	
XX	DE	Human polynucleotide SEQ ID NO 13776.	
XX	KW	Human; cytokine; cell proliferation; cell differentiation; gene therapy;	
KW	KW	vaccine; peptide therapy; stem cell growth factor; haematopoiesis;	
KW	KW	tissue growth factor; immunomodulatory; cancer; leukaemia;	
KW	KW	nervous system disorders; arthritis; inflammation; ss.	
OS	OS	Homo sapiens.	
XX	PN	WO200164835-A2.	
XX	PD	07-SEP-2001.	
XX	PF	26-FEB-2001; 2001WO-US004927.	
XX	PR	28-FEB-2000; 2000US-00515126.	
PR	PR	18-MAY-2000; 2000US-00577409.	
XX	XX	(HYSE-) HYSEQ INC.	
PA	Tang YT, Liu C, Drmanac RT;		
PI	WPI; 2001-514838/56.		
XX	P-PSDB; AAQ13785.		
DR	Isolated nucleic acids and polypeptides, useful for preventing diagnosing and treating e.g. leukemia, inflammation and immune disorders.		
XX	Claim 1; SEQ ID NO 13776; 1399pp + Sequence Listing; English.		
XX	The invention relates to human polynucleotides (AAI79941-AAI93841) and the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to cytokine, cell proliferation or cell differentiation or which may induce production of other cytokines in other cell populations. The polynucleotides and polypeptides are useful in gene therapy, vaccines or peptide therapy. The polypeptides have various cytokine-like activities, e.g. stem cell growth factor activity, haematopoiesis regulating activity, tissue growth factor activity, immunomodulatory activity and activin/inhibin activity and may be useful in the diagnosis and/or treatment of cancer, leukaemia, nervous system disorders, arthritis and inflammation. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences		
XX	Sequence 411 BP; 157 A; 87 C; 64 G; 101 T; 0 U; 2 Other;		
SQ	Query Match 3.0%; Score 66.8; DB 4; Length 411; Best Local Similarity 72.3%; Pred. No. 0.00011; Matches 86; Conservative 0; Mismatches 33; Indels 0; Gaps 0;		
QY	2124	TTGCTTTACCACCTCTTCTCTTTTATCTATTATAAAAAATGTGGTCTCCACCACTGNC	2183
Db	181	TTTCTTTATCTCTGTTTCTTAATCTCTTTCTCCCTTTCCATCTCATTTATCTCTATGCT	240
QY	2184	CCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	2242
Db	241	CCCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	299
RESULT 268			
ADI76334/C			
ID	ADI76334	standard; DNA; 445 BP.	
XX	AC	ADI76334;	
XX	DT	20-MAY-2004 (first entry)	
XX	DE	Human ovarian cancer DNA marker #9076.	
XX	KW	Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.	
XX	OS	Homo sapiens.	
XX	PN	WO200170979-A2.	
XX	PD	27-SEP-2001.	
XX	PR	21-MAR-2001; 2001WO-US0009126.	
PR	PR	21-MAR-2000; 2000US-0191031P.	
PR	PR	25-MAY-2000; 2000US-0207124P.	
PR	PR	15-JUN-2000; 2000US-0211940P.	
PR	PR	07-JUL-2000; 2000US-0216820P.	
PR	PR	25-JUL-2000; 2000US-0220661P.	
PR	PR	21-DEC-2000; 2000US-0257672P.	
XX	PA	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.	
XX	PI	Lee J, Lillie J;	
XX	DR	WPI; 2001-611502/70.	
XX	PT	Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.	
PS	Disclosure; SEQ ID NO 9076; 106pp; English.		
XX	The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer in a patient at risk of developing ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to cells of the patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a subsequent sample at a first point in time, repeating the method at a subsequent		

migration, prohormone activation and neurotransmitter activity. The secreted proteins, nucleic acids encoding them, antibodies or antibody fragments specific for the secreted proteins, and modulators of protein activity are useful for diagnosing or treating cancers or other hyperproliferative disorders. Additionally, the secreted proteins and their nucleic acids may also be used in the treatment of autoimmune disorders, inflammatory disorders, diseases involving angiogenesis, AIDS (acquired immunodeficiency syndrome), hepatitis, anaemia, and to promote wound healing. Nucleic acids of the invention may be used for chromosome identification, chromosome mapping, in gene therapy, for identifying individuals from minute biological samples, as hybridisation probes, and as molecular weight markers. The present sequence represents a human secreted protein-encoding cDNA clone of the invention

Query Match 3.0%; Score 66.8; DB 8; Length 1365;
Best Local Similarity 77.7%; Pred. No. 0.00017;
Matches 80; Conservative 0; Mismatches 23; Indels 0; Gaps 0;

RESULT 276	
ABZ671129	
ID	ABZ671129 standard; cDNA; 1365 BP.
XX	
AC	ABZ671129;
XX	
DT	26-MAR-2003 (first entry)
XX	
DE	Human secreted protein encoding cDNA SEQ ID NO 249.
XX	
KW	Human; secreted protein; nootropic; neuroprotective; cytostatic;
KW	virucide; dermatological; immunosuppressive; antiinflammatory; anti-HIV;
KW	vulnery; antibacterial; antiparkinsonian; antischlicking; antianaemic;
KW	antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective;
KW	antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant;
KW	antifungal; antiparasitic; cardiac; immune disorder; infection; vaccine;
KW	cardiovascular disorder; neurological disease; nephrotropic;
KW	gene therapy; gene; chromosome 16q13; ds.

The invention relates to novel human genes (ABZ66891-ABZ68209) and the encoded secreted proteins (ABP99470-ABP99872) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections

RESULT 277
ADE79073

ADP/2073
ID ADE79073 standard: DNA: 2187 BP.

AC ADE79073;

DT 29-JAN-2004 (first entry)

DE Human protein modification and maintenance molecule (PMM)-53 gene.

protein modification and maintenance molecule; PMMM;
protein modification; protein maintenance; protein function;
protein conformation; protein stabilisation; protein degradation; kinase;
phosphatase; protease; protease inhibitor; isomerase; transferase;
molecular chaperone, anti-HIV; antiallergic; antiinflammatory;
antianaemic; antiparkinsonian; nootropic; anticonvulsant;
antiarteriosclerotic; antiasthmatic; immunosuppressive; antithyroid;
cytostatic; hepatotropic; dermatological; antidiabetic; nephrotropic;
antigout; thyromimetic; neuroprotective; osteopathic; antiarthritic;
antiparasitic; antihelminthic; antipsoriatic; uropathic; ophthalmological;
antirheumatic; haemostatic; antibacterial; virucide; protozoacide;
fungicide; gene therapy; cell proliferative disorder; arteriosclerosis;
hepatitis; polycythaemia vera; psoriasis; primary thrombocytopaenia;
cancer; developmental disorder; anaemia; mental retardation;
neurological disorder; Alzheimer's disease; Parkinson's disease;
epilepsy; autoimmune disorder; inflammatory disorder; AIDS; allergies;
asthma; autoimmune thyroiditis; Crohn's disease; diabetes mellitus;
glomerulonephritis; Goodpasture's syndrome; multiple sclerosis;
arthritis; osteoporosis; pancreatitis; Sjogren's syndrome;
microbial infection, human; gene; ds.

OS Homo sapiens.

PN WO2003063688-A2.

PD 07-AUG-2003.

23 - JAN - 2003; 2003WO-US002500.

PR 25-JAN-2002; 2002US-0351928P.

PR 25-FEB-2002; 2002US-0359903P.


```
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Birse CE, Rosen CA;
XX
DR WPI; 2002-147878/19.
DR P-PSDB; ABP41265.
XX
PT Isolated nucleic acid molecules encoding novel ovarian polypeptides,
PT useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian
PT cancer), immune disorders, cardiovascular disorders and neurological
PT diseases.
XX
PS Claim 1; SEQ ID NO 222; 29222pp; English.
XX
CC The invention relates to 2175 novel human ovarian antigens (ABP41054-
CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also
CC encompasses polypeptides 90% identical and polynucleotides 95% identical
CC to the sequences of the invention. The invention additionally relates to
CC recombinant vectors and host cells comprising human ovarian antigen
CC polynucleotides, antibodies against human ovarian antigens, and the use
CC of ovarian antigen polynucleotides and polypeptides in diagnosing,
CC treating, prognosing or preventing various ovary and/or breast-related
CC disorders. Such conditions include ovarian cancer and breast cancer, and
CC metastatic tumours of ovarian or breast origin, reproductive system
CC disorders (e.g., infertility, disorders of pregnancy, anovulation,
CC polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine
CC disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
CC shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
CC vaginitis), immune disorders (e.g., congenital and acquired
CC immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
CC blood-related disorders (e.g., anaemia), cardiovascular disorders,
CC respiratory disorders, neurological disorders, gastrointestinal disorders
CC and urinary system disorders. Ovarian antigen polypeptides and
CC polynucleotides may also be used in screening for compounds which
CC modulate ovarian antigen expression or activity. The polynucleotides may
CC further be used for gene therapy, chromosome mapping, in the
CC identification of individuals and in forensic analysis, and the
CC polypeptides may be used as food additives or to prepare antibodies
CC useful in disease diagnosis, drug targeting and phenotyping. The present
CC sequence represents cDNA encoding a human ovarian antigen of the
CC invention. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 2755 BP; 751 A; 749 C; 523 G; 728 T; 0 U; 4 Other;

Query Match      3.0%; Score 66.8; DB 6; Length 2755;
Best Local Similarity 66.4%; Pred. No. 0.00021;
Matches 95; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 2100 AATCATTCATCCAAATGATCGCCTTTGGCTTTTACCACCTCTTTCCCTTTTATCTTATTATAA 2159
Db 2583 ATTTATTTAAAGAAAAAAACTTTTGTGTAACGACTATTTCAGCTTTTAAAAATCAATAA 2642

QY 2160 AAATGTTGGTCTCCACCACTGNCCTCCCAAAAAAATAAAAAAATAAAAAA 2219
Db 2643 ACCCCGTTTTTTCAGAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2702

QY 2220 AAAAAAATAAAAAAATAAAAAA 2242
Db 2703 AAAAAAATAAAAAAATAAAAAA 2725

RESULT 281
AAF18172
ID AAF18172 standard; DNA; 3144 BP.
XX
AC AAF18172;
XX
DT 14-MAR-2001 (first entry)
XX
DE Lung cancer associated polynucleotide sequence SEQ ID 191.
XX
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```
KW Human; lung cancer associated protein; neuroprotective; cytostatic;
KW cardioactive; immunomodulatory; muscular active; vulnerary;
KW gastrointestinal; nephrotropic; antiinfective; gynecological;
KW antibacterial; diagnosis; neural disorder; immune disorder; reproductive;
KW proliferative disorder; wound healing; infectious disease; ds.
XX
OS Homo sapiens.
XX
PN WO200055180-A2.
XX
PD 21-SEP-2000.
XX
PF 08-MAR-2000; 2000WO-US0005918.
XX
PR 12-MAR-1999; 99US-0124270P.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
PA (ROSE/) ROSEN C A.
XX
PI Ruben SM;
XX
DR WPI; 2000-587514/55.
DR P-PSDB; AAB58296.
XX
PT Lung cancer associated gene sequences, referred to as lung cancer
PT antigens, useful for treatment, prevention, and diagnosis of disorders
PT such as lung cancer.
XX
PS Claim 1; Page 656-657; 1425pp; English.
XX
CC Polynucleotide sequences AAF17982 - AAF18424 encode human lung cancer
CC associated proteins represented in AAB58106 - AAB58548. Lung cancer
CC associated proteins and polynucleotide sequences, their agonists, and
CC antagonists may have neuroprotective; cytostatic; cardioactive;
CC immunomodulatory; muscular active general; vulnerary; gastrointestinal
CC general; nephrotropic; antiinfective; gynecological; or antibacterial
CC activity. The invention also includes antibodies specific for the protein
CC or polynucleotide sequences. The lung cancer associated polynucleotide
CC sequences may be used for detection of lung cancer, chromosome
CC identification, as chromosome markers, and for numerous other diagnostic
CC or research purposes. The proteins may be used to treat disorders such as
CC neural, immune, muscular, reproductive, gastrointestinal, pulmonary,
CC cardiovascular, renal, and proliferative disorders. The proteins may also
CC be used in the treatment of wounds and infectious diseases.
CC Polynucleotide sequences AAF18425 - AAF18433 and peptide AAB58549 are
CC used in the course of the invention for the identification and
CC characterisation of the polynucleotide and protein sequences
XX
SQ Sequence 3144 BP; 835 A; 877 C; 631 G; 796 T; 0 U; 5 Other;

Query Match      3.0%; Score 66.8; DB 3; Length 3144;
Best Local Similarity 66.4%; Pred. No. 0.00022;
Matches 95; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

QY 2100 AATCATTCATCCAAATGATCGCCTTTGGCTTTTACCACCTCTTTCCCTTTTATCTTATTATAA 2159
Db 2971 ATTTATTTAAAGAAAAAATAAAAACTTTTGTACGACTATTTCAGCTTTTAAAAATCAATAA 3030

QY 2160 AAATGTTGGTCTCCACCACTGNCCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAA 2219
Db 3031 ACCCCGTTTTTTCAGAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3090

QY 2220 AAAAAAATAAAAAAATAAAAAA 2242
Db 3091 AAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 3113

RESULT 282
ABK28362/c
ID ABK28362 standard; DNA; 6155 BP.
XX
AC ABK28362;
XX
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DT 23-APR-2002 (first entry)
XX DNA transcription associated complementary genomic DNA #118.
XX
KW DNA transcription associated gene; peptide nucleic acid; PNA-oligomer;
KW PNA; cytosine methylation state; SNP; retroviral infection; gene; ds;
KW single nucleotide polymorphism; adenosine deaminase deficiency; cancer;
KW viral infection; Sezary syndrome; haematological disorder; tuberculosis;
KW immunological disorder; Werner syndrome; developmental disorder;
KW psoriasis; Rieger's syndrome; neurological disorder; erythropoiesis;
KW neurodegenerative disorder; Waardenburg syndrome; Niemann-Pick disease;
KW myelodysplastic syndrome; myocardial infarction; hypertension; arthritis;
KW angiogenesis; congenital heart disease; HDR syndrome; gene therapy;
KW polyglutamine disorder; solid tumour.
XX
OS Unidentified.
XX WO200192565-A2.
XX PN
XX 06-DEC-2001.
XX PD
XX PF 06-APR-2001; 2001WO-EP003973.
XX XX 06-APR-2000; 2000DE-01019058.
PR 07-APR-2000; 2000DE-01019173.
PR 30-JUN-2000; 2000DE-01032529.
PR 01-SEP-2000; 2000DE-01043826.
XX
PA (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2002-090046/12.
XX
PT New nucleic acids or oligomers, useful for diagnosing or treating
PT diseases associated with DNA transcription, e.g. immunological disorders,
PT Werner syndrome, psoriasis, myocardial infarction, solid tumors or
PT cancer.
XX
PS Claim 1; SEQ ID NO 236; 32pp; English.
XX
CC The invention relates to a nucleic acid, which comprises a segment of the
CC chemically pretreated DNA of genes associated with DNA transcription from
CC one of 346 sequences, and an oligomer, in particular an oligonucleotide
CC or peptide nucleic acid (PNA)-oligomer that hybridises to or is identical
CC to the chemically pretreated DNA of genes associated with DNA
CC transcription. The set of oligomer probes are useful for detecting the
CC cytosine methylation state and/or single nucleotide polymorphisms (SNPs)
CC in a chemically pretreated genomic DNA. The nucleic acids are useful for
CC diagnosing or treating diseases associated with DNA transcription
CC (particularly with the methylation status), e.g. adenosine deaminase
CC deficiency, viral infection, retroviral infection, Sezary syndrome,
CC haematological disorders, immunological disorders, Werner syndrome,
CC tuberculosis, developmental disorders, psoriasis, Rieger's syndrome,
CC neurological disorders, neurodegenerative disorders, Waardenburg
CC syndrome, Niemann-Pick disease, myelodysplastic syndrome, myocardial
CC infarction, hypertension, angiogenesis, erythropoiesis, congenital heart
CC disease, HDR syndrome, arthritis, polyglutamine disorders, solid tumours
CC or cancer. Sequences ABK28127-ABK28472 represent DNA transcription
CC associated genomic DNA molecules of the invention. Note: The sequence
CC data for this patent did not form part of the printed specification but
CC was obtained in electronic format directly from the European Patent
CC Office
XX
SQ Sequence 6155 BP; 1620 A; 137 C; 1268 G; 3130 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.8; DB 6; Length 6155;
Best Local Similarity 81.1%; Pred. No. 0.00027;
Matches 77; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 2148 TCTTATTATAAAATGTTGGTCTCCACCACCTGCTCCCAAAAAA
DB 1236 TCTAACTACGACATATCTACGTCTCTACTATAAAAAA

QY 2208 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2242
Db 1176 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 1142
RESULT 283
ADI73348/c
ID ADI73348 standard; DNA; 291 BP.
XX
AC ADI73348;
XX 20-MAY-2004 (first entry)
XX Human ovarian cancer DNA marker #6090.
DE Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
XX Homo sapiens.
XX WO200170979-A2.
XX 27-SEP-2001.
XX 21-MAR-2001; 2001WO-US009126.
PR 21-MAR-2000; 2000US-0191031P.
PR 25-MAY-2000; 2000US-0207124P.
PR 15-JUN-2000; 2000US-0211940P.
PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX
PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
XX WPI; 2001-611502/70.
XX
PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT cancer cells as compared to their normal non-cancerous ovarian cells are
PT used to characterize stage, grade, histological type of ovarian cancer.
XX
PS Disclosure; SEQ ID NO 6090; 106pp; English.
XX
CC The invention relates to nucleic acid markers which are overexpressed in
CC ovarian cancer cells as compared to their expression in normal (i.e. non-
CC cancerous) ovarian cells. The invention also relates to polypeptides
CC encoded by the markers, antibodies that selectively bind to the
CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk
CC of developing ovarian cancer involving inhibiting expression of a gene
CC corresponding to a marker of the invention and a method of treating a
CC patient afflicted with ovarian cancer comprising providing to cells of
CC the patient an antisense oligonucleotide complementary to a marker of the
CC invention. The markers are useful for assessing if a patient is afflicted
CC with ovarian cancer, which involves comparing the level of expression of
CC a marker in a patient sample and a normal level of expression of the
CC marker in a control non-ovarian cancer sample. A difference between the
CC expression levels indicates ovarian cancer. The level of expression of a
CC marker corresponds to a secreted protein or to a transcribed
CC polynucleotide or its portion. The level of expression of the marker is
CC assessed by detecting the presence in the sample, a protein or protein
CC fragment corresponding to the marker. The presence of protein or protein
CC fragment is detected using an antibody that specifically binds with the
CC protein or protein fragment. Alternatively, the level of expression of
CC the marker is assessed by detecting the presence of a transcribed
CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer in a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,


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PR 07-JUL-2000; 2000US-0216820P.
PR 25-JUL-2000; 2000US-0220661P.
PR 21-DEC-2000; 2000US-0257672P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX Lee J, Lillie J;
XX WPI; 2001-611502/70.
DR
XX
XX Novel isolated nucleic acid molecules (markers) overexpressed in ovarian
PT cancer cells as compared to their normal non-cancerous ovarian cells are
PT used to characterize stage, grade, histological type of ovarian cancer.
XX
XX Disclosure; SEQ ID NO 17408; 106pp; English.
XX
XX The invention relates to nucleic acid markers which are overexpressed in
CC ovarian cancer cells as compared to their expression in normal (i.e. non-
CC cancerous) ovarian cells. The invention also relates to polypeptides
CC encoded by the markers, antibodies that selectively bind to the
CC polypeptides, a method of inhibiting ovarian cancer in a patient at risk
CC of developing ovarian cancer involving inhibiting expression of a gene
CC corresponding to a marker of the invention and a method of treating a
CC patient afflicted with ovarian cancer comprising providing to cells of
CC the patient an antisense oligonucleotide complementary to a marker of the
CC invention. The markers are useful for assessing if a patient is afflicted
CC with ovarian cancer, which involves comparing the level of expression of
CC a marker in a patient sample and a normal level of expression of the
CC marker in a control non-ovarian cancer sample. A difference between the
CC expression levels indicates ovarian cancer. The level of expression of a
CC marker corresponds to a secreted protein or to a transcribed
CC polynucleotide or its portion. The level of expression of the marker is
CC assessed by detecting the presence in the sample, a protein or protein
CC fragment corresponding to the marker. The presence of protein or protein
CC fragment is detected using an antibody that specifically binds with the
CC protein or protein fragment. Alternatively, the level of expression of
CC the marker is assessed by detecting the presence of a transcribed
CC polynucleotide which anneals with the marker or anneals with a portion of
CC the polynucleotide comprising the marker, under stringent conditions. The
CC marker is also used for monitoring the progression of ovarian cancer in a
CC patient which involves detecting expression of the marker in a patient
CC sample at a first point in time, repeating the method at a subsequent
CC time and comparing the level of expression. The method is carried out
CC using an ovarian tissue sample. A composition comprising a marker,
CC polypeptide or antibody of the invention is used to treat ovarian cancer.
CC This sequence represents a human ovarian cancer DNA marker of the
CC invention.
XX
SQ Sequence 445 BP; 153 A; 41 C; 56 G; 195 T; 0 U; 0 Other;
Query Match 3.0%; Score 66.6; DB 5; Length 445;
Best Local Similarity 69.2%; Pred. No. 0.00013;
Matches 90; Conservative 0; Mismatches 40; Indels 0; Gaps 0;
QY 2113 AATGATCGCCTTTGCTTTACCACTCTTTCCCTTTTATCTTATTAATAAAATGTTGGTCTC 2172
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
246 AATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 187
QY 2173 CACCACCTGCTCCCAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 2232
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
186 TTTTCTTAACAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAAATAAAAAA 127
QY 2233 AAAAAAATA 2242
Db ||||| |||||
126 AAAAAAATA 117
RESULT 288
ACN50953/c
ID ACN50953 standard; cDNA; 458 BP.
XX
AC ACN50953;
XX
```

```
DT 02-DEC-2004 (first entry)
XX Cotton androecium tissue EST Clone ID: LIB3828-002-Q1-N6-E1, SEQ:5734.
DE
XX Cotton; plant; EST; expressed sequence tag; transgenic plant; androecium;
KW variety Nucotton33B; library LIB3828; molecular tag; molecular marker;
KW genetic mapping; molecular mapping; seed germination; plant growth;
KW plant quality; plant yield; plant breeding; tissue printing; ss.
XX
OS Gossypium hirsutum.
XX
XX US2004123340-A1.
PN
XX
XX 24-JUN-2004.
XX
XX 12-DEC-2001; 2001US-00021323.
PF
XX
XX 14-DEC-2000; 2000US-0255619P.
XX
XX (DEIK/) DEIKMAN J.
PA (FENG/) FENG P C C.
PA (FINC/) FINCHER K L.
PA (ZIEG/) ZIEGLER T E.
XX
XX Deikman J, Feng PCC, Fincher KL, Ziegler TE;
PI
XX WPI; 2004-479808/45.
XX
XX New isolated nucleic acid molecule that encodes a plant protein or its
PT fragment, useful for isolating a variety of agronomically significant
PT genes associated with plant growth, quality or yield, and as molecular
PT tags to map genes.
XX
PS Claim 1; SEQ ID NO 5734; 34pp; English.
XX
XX The invention relates to 17880 cotton expressed sequence tags (ESTs;
CC ACN45220-ACN63099). The ESTs were isolated from cDNA libraries generated
CC from primed or non-primed seeds from variety DPSOB, mature seeds from
CC variety Coker 312 Boswell 96 Field, and androecium tissue, gynoecium
CC tissue, developing fibres, carpel walls and septa from variety
CC Nucotton33B. The invention also relates to substantially purified
CC proteins or their fragments encoded by nucleic acid molecules of the
CC invention, and to transformed plants having a nucleic acid construct
CC comprising a nucleic acid of the invention. The cotton ESTs are useful as
CC molecular tags to isolate genetic regions, to isolate genes, to map
CC genes, to determine gene function and to determining whether genes are
CC members of a particular gene family. The nucleic acid molecules may be
CC used for isolating a variety of agronomically significant genes
CC associated with plant growth, quality, yield, and could also serve as
CC links in metabolic and catabolic pathways. The nucleic acid molecules are
CC also useful for identifying genes important in initiating and maintaining
CC seed germination or that may be used to mitigate stresses encountered
CC during seed germination. The ESTs additionally enable the acquisition of
CC promoters and cis-regulatory elements which will be useful to express
CC agronomically significant genes in these tissues and/or other tissues,
CC and also permits the acquisition of molecular markers useful in breeding
CC schemes, genetic and molecular mapping, and in cloning of agronomically
CC significant genes. The nucleic acid molecules are further useful for
CC detecting the expression level or pattern of a protein or mRNA and for
CC detecting the presence or quantity of a protein by tissue printing. The
CC present sequence represents a specifically claimed EST isolated from a
CC cotton variety Nucotton33B androecium tissue cDNA library (LIB3828). The
CC sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from the US
CC patent office at seqdata.uspto.gov/sequence.html?DocID=US20040123340
XX
SQ Sequence 458 BP; 151 A; 28 C; 63 G; 216 T; 0 U; 0 Other;
Query Match 3.0%; Score 66.6; DB 13; Length 458;
Best Local Similarity 79.6%; Pred. No. 0.00013;
Matches 78; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
QY 2145 TTATCTTATTAATAAAATGTTGGTCTCTCCACCACCTGCTCCCAAAAAAATAAAAAA 2204
```


FT mat_peptide /*tag= b
FT 5..1366
FT /*tag= c
FT /product= "Human mature secreted protein"
XX
XX WO200218435-A1.
XX
XX PN
XX PD
XX 07-MAR-2002.
XX
XX PF
XX 17-JAN-2001; 2001WO-US001567.
XX
XX PR
XX 28-AUG-2000; 2000US-0228084P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PA
XX PI Rosen CA, Komatsoulis GA, Baker KP, Birse CE, Soppet DR;
XX PI Olsen HS, Moore PA, Wei P, Ebner R, Duan DR, Shi Y, Choi GH;
XX PI Fiscella M, Ni J;
XX
XX WPI; 2002-281060/32.
DR P-PSDB; AAE20817.
XX
XX Isolated nucleic acid molecule encoding a human secreted protein is used
PT in preventing, treating or ameliorating e.g. Alzheimer's disease, cardio-
PT /cerebrovascular disorders and multiple sclerosis.
XX
XX Claim 1; Page 433; 504pp; English.
XX
XX AAD33237-AAD33280 represent cDNAs corresponding to 18 human secreted
CC protein genes, and AAE20793-AAE20836 represent the proteins they encode.
CC AAE20837-AAE20847 represent human secreted protein fragments. The genes
CC and their corresponding secreted proteins are useful for preventing,
CC treating or ameliorating medical conditions, e.g., by protein or gene
CC therapy. Pathological conditions can be diagnosed by determining the
CC amount of the new protein in a sample or by determining the presence of
CC mutations in the new genes. Specific uses are described for each of the
CC 18 genes, based on the tissues in which they are most highly expressed,
CC and include developing products for the diagnosis or treatment of immune
CC or autoimmune diseases (e.g. HIV (human immunodeficiency virus)
CC infections, anaemia, rheumatoid arthritis and multiple sclerosis),
CC cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of
CC the breast or liver, Sezary syndrome and Gaucher's disease), neurological
CC diseases (e.g. Alzheimer's disease, Parkinson's disease and Charcot-
CC Marie-Tooth disease), cardiovascular or cerebrovascular disorders (e.g.
CC cardiac arrest, tachycardia, angina and thrombosis), infections caused by
CC bacteria, viruses and fungi and ocular disorders (e.g. corneal
CC infections). Secreted proteins of the invention can also be used to
CC promote wound healing, maintain organs before transplantation, support
CC cell culture of primary tissues, modulate differentiation of embryonic
CC stem cells, induce mesodermal tissue to differentiate in embryos,
CC modulate mammalian characteristics (e.g. height and weight), modulate the
CC catabolism, anabolism, energy storage, mental state, biorhythms, cardiac
CC rhythms, reproductive potential, hormonal levels appetite, memory and
CC stress. They can also be used as an additive to increase or decrease
CC storage capabilities and nutritional content of food. The present
CC sequence represents a human secreted protein-encoding cDNA of the
CC invention
XX
XX Sequence 2022 BP; 575 A; 500 C; 512 G; 427 T; 0 U; 8 Other;
Query Match 3.0%; Score 66.6; DB 6; Length 2022;
Best Local Similarity 71.3%; Pred. No. 0.00021;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 2121 CCTTGGCTTTACCACCTCTTCTCCTTTTATCTTATTATAAAATGTTGGTCTCCACCACCTG 2180
Db 1834 CCTTTTCCTTCCCATCTCTGTACACATTTTATAAAATAAGGTTGGCTTCTGAACTA 1893
QY 2181 NCTCCCAA 2240
Db 1894 CAAA 1953
QY 2241 AA 2242

Db 1954 AA 1955
RESULT 295
ADR41309
ID ADR41309 standard; cDNA; 2311 BP.
XX
XX AC ADR41309;
XX
XX DT
XX 07-OCT-2004 (first entry)
XX
XX DE Human CD-like molecule HSXDF41 cDNA, SEQ ID NO:108.
XX
XX KW Human; CD-like molecule; cluster of differentiation; diagnosis;
KW prevention; immune disorder; immunodeficiency; autoimmune disorder;
KW blood-related disorder; haematological disorder; haemostatic disorder;
KW thrombolytic disorder; hyperproliferative disorder; cancer; tumour;
KW apoptotic disorder; cardiovascular disorder; respiratory disorder;
KW angiogenic disorder; neovascularisation; neurological disorder;
KW endocrine disorder; reproductive system disorder; infectious disease;
KW gastrointestinal disorder; drug screening; tissue regeneration;
KW gastrotaxis; gene therapy; antibody therapy; drug targeting;
KW chromosome mapping; forensic analysis; immunophenotyping; cytostatic;
KW haemostatic; tranquiliser; vulnery; antiinflammatory; nephrotropic;
KW cardiant; antiallergic; anti-HIV; antirheumatic; antiarthritic;
KW antipsoriatic; immunosuppressive; vasotropic; nootropic; neuroprotective;
KW antithyroid; thyromimetic; gynaecological; virucide; hepatotropic;
KW antibacterial; dermatological; chromosome 11; gene; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200226930-A2.
XX
XX PD 04-APR-2002.
XX
XX PF 25-SEP-2001; 2001WO-US029838.
XX
XX PR 26-SEP-2000; 2000US-0235484P.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX PA Rosen CA, Birse CE;
XX
XX PI WPI; 2002-405050/43.
XX P-PSDB; ADR41485.
XX
XX Novel polynucleotides and polypeptides useful for treating, preventing or
PT ameliorating cardiovascular, renal, neurovascular, and autoimmune
PT disorders.
XX
XX PS Claim 4; SEQ ID NO 108; 1243pp; English.
XX
XX The invention relates to 167 novel human CD (cluster of differentiation)-
CC like molecules (ADR41388-ADR41563) and to cDNAs encoding them (segid:11)-
XX
XX SQ Sequence 2311 BP; 636 A; 580 C; 584 G; 503 T; 0 U; 8 Other;
Query Match 3.0%; Score 66.6; DB 7; Length 2311;
Best Local Similarity 71.3%; Pred. No. 0.00022;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 2121 CCTTGGCTTTACCACCTCTTCTCCTTTTATCTTATTATAAAATGTTGGTCTCCACCACCTG 2180
Db 2123 CCTTTTCCTTCCCATCTCTGTACACATTTTATAAAATAAGGTTGGCTTCTGAACTA 2182
QY 2181 NCTCCCAA 2240
Db 2183 CAAA 2242
QY 2241 AA 2242
Db 2243 AA 2244

RESULT 296	
ADA00368	
ID	ADA00368 standard; cDNA; 2843 BP.
XX	
AC	ADA00368;
XX	
XX	06-NOV-2003 (first entry)
DT	
XX	
DE	Human secreted/transmembrane polypeptide PRO 1344 cDNA.
XX	
KW	ss; gene; affinity purification; human; pericyte-associated tumour;
KW	tumour; proteoglycan release; tumour necrosis factor-alpha;
KW	TNF-alpha release; glucose uptake; free fatty acid; FFA uptake.
XX	
OS	Homo sapiens.
XX	
PN	US2003027992-A1.
XX	
PD	06-FEB-2003.
XX	
PF	02-MAY-2002; 2002US-00063524.
XX	
PR	30-DEC-1998; 98KR-00062142.
PR	08-MAR-1999; 99WO-US005028.
PR	14-MAY-1999; 99US-00311832.
PR	14-MAY-1999; 99WO-US010733.
PR	25-AUG-1999; 99US-00380137.
PR	25-AUG-1999; 99US-00380138.
PR	25-AUG-1999; 99US-00380139.
PR	25-AUG-1999; 99US-00380142.
PR	15-SEP-1999; 99US-00397342.
PR	18-OCT-1999; 99US-00403297.
PR	12-NOV-1999; 99US-00423844.
PR	30-DEC-1999; 99WO-US031274.
PR	18-FEB-2000; 2000WO-US004341.
PR	01-MAR-2000; 2000WO-US005601.
PR	02-MAR-2000; 2000WO-US005841.
PR	21-MAR-2000; 2000WO-US007532.
PR	22-MAY-2000; 2000WO-US014042.
PR	02-JUN-2000; 2000WO-US015264.
PR	22-AUG-2000; 2000US-00644848.
PR	24-AUG-2000; 2000WO-US023328.
PR	18-SEP-2000; 2000US-00664610.
PR	18-SEP-2000; 2000US-00665350.
PR	08-NOV-2000; 2000US-00709238.
PR	10-NOV-2000; 2000WO-US030873.
PR	01-DEC-2000; 2000WO-US032678.
PR	20-DEC-2000; 2000US-00747259.
PR	20-DEC-2000; 2000WO-US034956.
PR	28-FEB-2001; 2001WO-US006520.
PR	22-MAR-2001; 2001US-00816744.
PR	10-MAY-2001; 2001US-00854208.
PR	10-MAY-2001; 2001US-00854280.
PR	30-MAY-2001; 2001US-00870574.
PR	01-JUN-2001; 2001WO-US017800.
PR	05-JUN-2001; 2001US-00874503.
PR	29-JUN-2001; 2001US-00869599.
PR	18-JUL-2001; 2001US-00908827.
PR	06-DEC-2001; 2001US-00006867.
XX	
PA	(GETH) GENENTECH INC.
XX	
PPI	Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PPI	Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX	
DR	WPI; 2003-596342/56.
DR	P-PSDB; ADA00369.
XX	
PT	New anti-PRO antibody, useful in diagnostic assays for PRO polypeptide
PT	for affinity purification of PRO from the recombinant cell culture
PT	natural source.

PR 10-JUN-1998; 98US-0088738P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088741P.
PR 10-JUN-1998; 98US-0088742P.
PR 10-JUN-1998; 98US-0088810P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 10-JUN-1998; 98US-0088826P.
PR 11-JUN-1998; 98US-0088858P.
PR 11-JUN-1998; 98US-0088861P.
PR 11-JUN-1998; 98US-0088863P.
PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089440P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089532P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089599P.
PR 17-JUN-1998; 98US-0089600P.
PR 17-JUN-1998; 98US-0089653P.
PR 18-JUN-1998; 98US-0089801P.
PR 18-JUN-1998; 98US-0089907P.
PR 18-JUN-1998; 98US-0089908P.
PR 19-JUN-1998; 98US-0089947P.
PR 19-JUN-1998; 98US-0089948P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.
PR 23-JUN-1998; 98US-0090349P.
PR 23-JUN-1998; 98US-0090355P.
PR 24-JUN-1998; 98US-0090429P.
PR 24-JUN-1998; 98US-0090431P.
PR 24-JUN-1998; 98US-0090435P.
PR 24-JUN-1998; 98US-0090444P.
PR 24-JUN-1998; 98US-0090445P.
PR 24-JUN-1998; 98US-0090461P.
PR 24-JUN-1998; 98US-0090472P.
PR 24-JUN-1998; 98US-0090535P.
PR 24-JUN-1998; 98US-0090538P.
PR 24-JUN-1998; 98US-0090540P.
PR 24-JUN-1998; 98US-0090557P.
PR 25-JUN-1998; 98US-0090676P.
PR 25-JUN-1998; 98US-0090678P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090690P.
PR 25-JUN-1998; 98US-0090691P.
PR 25-JUN-1998; 98US-0090694P.
PR 25-JUN-1998; 98US-0090695P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 26-JUN-1998; 98US-0090863P.
PR 01-JUL-1998; 98US-0091358P.
PR 01-JUL-1998; 98US-0091360P.
PR 02-JUL-1998; 98US-0091478P.
PR 02-JUL-1998; 98US-0091486P.
PR 02-JUL-1998; 98US-0091519P.
PR 02-JUL-1998; 98US-0091544P.
PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
PR 02-JUL-1998; 98US-0091633P.
PR 02-JUL-1998; 98US-0091646P.
PR 02-JUL-1998; 98US-0091673P.
PR 07-JUL-1998; 98US-0091978P.
PR 07-JUL-1998; 98US-0091982P.
PR 09-JUL-1998; 98US-0092182P.
PR 10-JUL-1998; 98US-0092472P.
PR 20-JUL-1998; 98US-0093339P.
PR 30-JUL-1998; 98US-0094651P.

PR 04-AUG-1998; 98US-0095282P.
PR 04-AUG-1998; 98US-0095285P.
PR 04-AUG-1998; 98US-0095301P.
PR 04-AUG-1998; 98US-0095302P.
PR 04-AUG-1998; 98US-0095318P.
PR 04-AUG-1998; 98US-0095321P.
PR 04-AUG-1998; 98US-0095325P.
PR 10-AUG-1998; 98US-0095916P.
PR 10-AUG-1998; 98US-0095929P.
PR 10-AUG-1998; 98US-0096012P.
PR 11-AUG-1998; 98US-0096143P.
PR 11-AUG-1998; 98US-0096146P.
PR 12-AUG-1998; 98US-0096329P.
PR 17-AUG-1998; 98US-0096757P.
PR 17-AUG-1998; 98US-0096766P.
PR 17-AUG-1998; 98US-0096768P.
PR 17-AUG-1998; 98US-0096773P.
PR 17-AUG-1998; 98US-0096791P.
PR 17-AUG-1998; 98US-0096867P.
PR 17-AUG-1998; 98US-0096891P.
PR 17-AUG-1998; 98US-0096894P.
PR 17-AUG-1998; 98US-0096895P.
PR 17-AUG-1998; 98US-0096897P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096950P.
PR 18-AUG-1998; 98US-0096959P.
PR 18-AUG-1998; 98US-0096960P.
PR 18-AUG-1998; 98US-0097022P.
PR 19-AUG-1998; 98US-0097141P.
PR 20-AUG-1998; 98US-0097218P.
PR 24-AUG-1998; 98US-0097661P.
PR 26-AUG-1998; 98US-0097951P.
PR 26-AUG-1998; 98US-0097952P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097955P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097974P.
PR 26-AUG-1998; 98US-0097978P.
PR 26-AUG-1998; 98US-0097979P.
PR 26-AUG-1998; 98US-0097986P.
PR 26-AUG-1998; 98US-0098014P.
PR 31-AUG-1998; 98US-0098525P.
PR 16-SEP-1998; 98US-0100634P.
PR 12-JAN-1999; 99US-0115565P.

(GETH) GENENTECH INC.

Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;
Wood WI, Yuan J;

WPI; 2000-072883/06.
P-PSDB; AAY66695.

Membrane-bound proteins and related nucleotide sequences.

Claim 2; Fig 158; 822pp; English.

The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents. Receptor immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques

Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;


```
Query Match      3.0%; Score 66.6; DB 3; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTTGCTTTACCACTCTTTCTTTATCTTTATTAATAAAATGTTGGTCTCCACCACTG 2180
    ||||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | |||
Db 2653 CCTTTCTCTCCCATCTCTGTACACATTTTAATAAAATAAGGTTGGCTTCTGAACTA 2712

QY 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
    ||||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | |||
Db 2713 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

QY 2241 AA 2242
    ||
Db 2773 AA 2774

RESULT 298
AAS46009
ID AAS46009 standard; cDNA; 2846 BP.
XX
AC AAS46009;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human DNA encoding PRO polypeptide sequence #85.
XX
KW PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep; ss;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;
KW PCR primer.
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
XX
PD 20-SEP-2001.
XX
PF 28-FEB-2001; 2001WO-US006520.
XX
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 03-MAR-2000; 2000US-0187202P.
PR 06-MAR-2000; 2000US-0186968P.
PR 14-MAR-2000; 2000US-0189320P.
PR 14-MAR-2000; 2000US-0189328P.
PR 15-MAR-2000; 2000WO-US006884.
PR 21-MAR-2000; 2000US-0190828P.
PR 21-MAR-2000; 2000US-0191007P.
PR 21-MAR-2000; 2000US-0191048P.
PR 21-MAR-2000; 2000US-0191314P.
PR 28-MAR-2000; 2000US-0192655P.
PR 29-MAR-2000; 2000US-0193032P.
PR 29-MAR-2000; 2000US-0193053P.
PR 30-MAR-2000; 2000WO-US008439.
PR 04-APR-2000; 2000US-0194449P.
PR 04-APR-2000; 2000US-0194647P.
PR 11-APR-2000; 2000US-0195975P.
PR 11-APR-2000; 2000US-0196000P.
PR 11-APR-2000; 2000US-0196187P.
PR 11-APR-2000; 2000US-0196690P.
PR 11-APR-2000; 2000US-0196820P.
PR 18-APR-2000; 2000US-0198121P.
PR 18-APR-2000; 2000US-0198585P.
PR 25-APR-2000; 2000US-0199397P.
PR 25-APR-2000; 2000US-0199550P.
PR 25-APR-2000; 2000US-0199654P.
PR 03-MAY-2000; 2000US-0201516P.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
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PR 02-JUN-2000; 2000WO-US015264.
PR 05-JUN-2000; 2000US-0209832P.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2001-602746/68.
DR P-PSDB; AAU29108.
XX
PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumors, such as prostate and breast tumors, in mammals and to
PT screen for modulators of the compounds.
XX
PS Claim 2; Fig 169; 774pp; English.
XX
CC Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR
CC primers for PRO polypeptides of the invention. The sequences of the
CC invention can be used to detect the presence of a tumour in a mammal by
CC comparing the level of expression of a PRO polypeptide in a test sample
CC of cells from the animal and a control sample of normal cells, whereby a
CC higher level of expression in the test sample indicates the presence of a
CC tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep,
CC pigs, goats and rabbits but are preferably human. The polypeptides can be
CC used to stimulate tumour necrosis factor (TNF) alpha release from human
CC blood, when contacted with it. A specific polypeptide can be used to
CC stimulate the proliferation or differentiation of chondrocyte cells. The
CC PRO proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match      3.0%; Score 66.6; DB 4; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 2121 CCTTTGCTTTACCACTCTTTCTTTATCTTTATTAATAAAATGTTGGTCTCCACCACTG 2180
    ||||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | |||
Db 2653 CCTTTCTCTCCCATCTCTGTACACATTTTAATAAAATAAGGTTGGCTTCTGAACTA 2712

QY 2181 NCTCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
    ||||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | ||| | |||
Db 2713 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

QY 2241 AA 2242
    ||
Db 2773 AA 2774

RESULT 299
AAF92076
ID AAF92076 standard; cDNA; 2846 BP.
XX
AC AAF92076;
XX
DT 15-MAY-2001 (first entry)
XX
DE Human PRO1344 cDNA.
XX
KW Human; PRO protein; mapping; ss.
XX
OS Homo sapiens.
XX
```

PN	WO200116318-A2.	
XX		
PD	08-MAR-2001.	
XX		
PF	24-AUG-2000; 2000WO-US023328.	
XX		
PR	01-SEP-1999; 99WO-US020111.	
PR	15-SEP-1999; 99WO-US021090.	
PR	07-DEC-1999; 99US-0169495P.	
PR	09-DEC-1999; 99US-0170262P.	
PR	11-JAN-2000; 2000US-0175481P.	
PR	18-FEB-2000; 2000WO-US004341.	
PR	18-FEB-2000; 2000WO-US004342.	
PR	22-FEB-2000; 2000WO-US004414.	
PR	01-MAR-2000; 2000WO-US005601.	
PR	03-MAR-2000; 2000US-0187202P.	
PR	21-MAR-2000; 2000US-0191007P.	
PR	30-MAR-2000; 2000WO-US008439.	
PR	25-APR-2000; 2000US-0199397P.	
PR	22-MAY-2000; 2000WO-US014042.	
PR	05-JUN-2000; 2000US-0209832P.	
XX		
PA	(GETH) GENENTECH INC.	
XX		
PI	Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;	
PI	Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;	
XX		
DR	WPI; 2001-183260/18.	
DR	P-PSDB; AAB87544.	
XX		
PT	Eighty four nucleic acids encoding PRO polypeptides, useful in molecular	
PT	biology, including use as hybridization probes, and in chromosome and	
PT	gene mapping.	
XX		
PS	Claim 2; Fig 37; 278pp; English.	
XX		
CC	The present sequence is the coding sequence for a human PRO polypeptide	
CC	(secreted and transmembrane). The PRO protein, and PRO agonists, PRO	
CC	antagonists or anti-PRO antibodies are useful for preparation of a	
CC	medicament useful in the treatment of a condition which is responsive to	
CC	the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO	
CC	protein may also be employed as molecular weight markers for protein	
CC	electrophoresis. The PRO coding sequence has applications in molecular	
CC	biology, including use as hybridisation probes, and in chromosome and	
CC	gene mapping	
XX		
SQ	Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;	
Query Match 3.0%; Score 66.6; DB 4; Length 2846;		
Best Local Similarity 71.3%; Pred. No. 0.00023;		
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;		
QY	2121 CCTTTGCTTTACCACCTCTTTCCCTTTTATCTTATTATAAAAAATGTTGGTCTCCACCACCTG	2180
Db		
Db	2653 CCTTTTCCTCCCATCTCTTGTACACATTTTATAAANAATAAGGTTGGCTTCTGAACCTA	2712
QY	2181 NCTCCCAA	2240
Db		
QY	2241 AA 2242	
Db		
Db	2773 AA 2774	
RESULT 300		
AAF44180		
ID	AAF44180 standard; cDNA; 2846 BP.	
XX		
AC	AAF44180;	
XX		
DT	02-APR-2001 (first entry)	
XX		

DE	Human PRO1344 (UNQ699) nucleotide sequence SEQ ID NO:230.	
XX		
KW	Human; secreted and transmembrane protein; PRO; cytostatic; cell death;	
KW	cancer; chromosomal mapping; gene mapping; tissue typing;	
KW	diagnostic assay; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO200073454-A1.	
XX		
PD	07-DEC-2000.	
XX		
PF	30-MAR-2000; 2000WO-US008439.	
XX		
PR	02-JUN-1999; 99WO-US012252.	
PR	23-JUN-1999; 99US-0141037P.	
PR	07-JUL-1999; 99US-0143048P.	
PR	20-JUL-1999; 99US-0144758P.	
PR	26-JUL-1999; 99US-0145698P.	
PR	28-JUL-1999; 99US-0146222P.	
PR	17-AUG-1999; 99US-0149396P.	
PR	15-SEP-1999; 99WO-US021090.	
PR	15-SEP-1999; 99WO-US021547.	
PR	08-OCT-1999; 99US-0158663P.	
PR	30-NOV-1999; 99WO-US028313.	
PR	01-DEC-1999; 99WO-US028301.	
PR	16-DEC-1999; 99WO-US030095.	
PR	20-DEC-1999; 99WO-US030911.	
PR	05-JAN-2000; 2000WO-US000219.	
PR	06-JAN-2000; 2000WO-US000376.	
PR	11-FEB-2000; 2000WO-US003565.	
PR	18-FEB-2000; 2000WO-US004341.	
PR	22-FEB-2000; 2000WO-US004414.	
PR	24-FEB-2000; 2000WO-US004914.	
PR	24-FEB-2000; 2000WO-US005004.	
PR	02-MAR-2000; 2000WO-US005841.	
PR	15-MAR-2000; 2000WO-US006884.	
PR	20-MAR-2000; 2000WO-US007377.	
XX		
PA	(GETH) GENENTECH INC.	
XX		
PI	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;	
PI	Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;	
PI	Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;	
PI	Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;	
PI	Zhang Z;	
XX		
DR	WPI; 2001-032160/04.	
DR	P-PSDB; AAB65218.	
XX		
PT	PRO polynucleotides used to produce polypeptides used to target bioactive	
PT	molecules such as toxins, radiolabels or antibodies, to specific cells,	
PT	to cause targeted cell death.	
XX		
PS	Claim 2; Fig 158; 935pp; English.	
XX		
CC	The present invention describes human secreted and transmembrane PRO	
CC	proteins. The PRO proteins have cytostatic activity. The PRO proteins can	
CC	be used for targeted delivery of bioactive molecules, such as toxins,	
CC	radiolabels or antibodies, that cause cell death. PRO nucleotide	
CC	sequences, and their fragments, can be used as hybridisation probes, in	
CC	chromosomal and gene mapping, and in the generation of anti-sense RNA and	
CC	DNA. They may also be used to produce transgenic animals which are used	
CC	to develop and screen therapeutically useful reagents. The PRO nucleotide	
CC	and protein sequence can be used for tissue typing and in treating	
CC	cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to	
CC	AAF44470 represent PCR primers and hybridisation probes used in the	
CC	isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to	
CC	AAB65300 represent human PRO polynucleotide and protein sequences given	
CC	in the exemplification of the present invention	
XX		
SQ	Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;	

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Query Match      3.0%; Score 66.6; DB 5; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY      2121 CCTTGTCTTTACCACACTCTTTCCCTTTTATCTTATTATAATAAAATGTTGGTCTCCACCACTG 2180
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      2653 CCTTTCCTCCCATCTCTGTACACATTTTAAATAAAATAAGGTTGGCTTCTGAACTA 2712

QY      2181 NCTCCAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2240
          ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      2713 CAAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

QY      2241 AA 2242
          ||
Db      2773 AA 2774
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RESULT 301
ABS74396
ID ABS74396 standard; cDNA; 2846 BP.
XX
AC ABS74396;
XX
DT 10-DEC-2002 (first entry)
XX
DE Human cDNA encoding secreted/transmembrane protein PRO1344.
XX
KW Human; ss; gene; secreted protein; transmembrane protein; antirheumatic;
KW antiarthritic; osteopathic; sports-related joint problem;
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.
OS Homo sapiens.
XX
PN US2002119130-A1.
XX
PD 29-AUG-2002.
XX
PF 06-DEC-2001; 2001US-00006867.
XX
PR 29-OCT-1997; 97US-0063435P.
PR 29-OCT-1997; 97US-0064215P.
PR 22-APR-1998; 98US-0082797P.
PR 29-APR-1998; 98US-0083495P.
PR 15-MAY-1998; 98US-0085579P.
PR 02-JUN-1998; 98US-0087759P.
PR 04-JUN-1998; 98US-0088021P.
PR 04-JUN-1998; 98US-0088029P.
PR 04-JUN-1998; 98US-0088030P.
PR 10-JUN-1998; 98US-0088734P.
PR 10-JUN-1998; 98US-0088740P.
PR 10-JUN-1998; 98US-0088811P.
PR 10-JUN-1998; 98US-0088824P.
PR 10-JUN-1998; 98US-0088825P.
PR 11-JUN-1998; 98US-0088863P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089653P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 24-JUN-1998; 98US-0090444P.
PR 25-JUN-1998; 98US-0090688P.
PR 25-JUN-1998; 98US-0090696P.
PR 26-JUN-1998; 98US-0090862P.
PR 02-JUL-1998; 98US-0091628P.
PR 10-AUG-1998; 98US-0096012P.
PR 17-AUG-1998; 98US-0096757P.
PR 18-AUG-1998; 98US-0096949P.
PR 18-AUG-1998; 98US-0096959P.
PR 26-AUG-1998; 98US-0097954P.
PR 26-AUG-1998; 98US-0097971P.
PR 26-AUG-1998; 98US-0097979P.
PR 01-SEP-1998; 98US-0098749P.
PR 10-SEP-1998; 98US-0099741P.
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PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099792P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98US-0099815P.
PR 16-SEP-1998; 98US-0100627P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100930P.
PR 22-SEP-1998; 98US-0101279P.
PR 23-SEP-1998; 98US-0101475P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101916P.
PR 30-SEP-1998; 98US-0102570P.
PR 06-OCT-1998; 98US-0103449P.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021194.
PR 22-DEC-1999; 99WO-US030720.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 01-MAR-2000; 2000WO-US005601.
PR 30-MAR-2000; 2000WO-US008439.
PR 22-MAY-2000; 2000WO-US014042.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032378.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 30-MAY-2001; 2001WO-US017443.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
XX
XX
PA (GETH ) GENENTECH INC.
XX
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski RJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX
DR WPI; 2002-731348/79.
DR P-PSDB; ABG95869.
XX
PT New isolated secreted and transmembrane PRO polypeptide useful for
PT modulating biological activity of a cell, or for treating sports-related
PT joint problems, osteoarthritis or rheumatoid arthritis.
XX
PS Claim 2; Fig 37; 399pp; English.
XX
CC The invention relates to an isolated secreted and transmembrane PRO
CC polypeptide having 80 % sequence identity to a sequence appearing as
CC ABG95851-ABG95934 or their associated signal peptide, or a sequence of an
CC extracellular domain of the proteins with their associated signal peptide
CC or lacking its associated signal peptide. Also included are the nucleic
CC acids encoding the proteins, vectors, host cells, fusion proteins and
CC antibodies which specifically bind to the proteins. The proteins are
CC useful for detecting a polypeptide designated as A, B, C or D in a sample
CC suspected of containing an A, B, C or D polypeptide, by contacting the
CC sample with a polypeptide designated as E, F, G, H or I (or vice versa)
CC and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide
CC conjugate in the sample, where the formation of the conjugate is
CC indicative of the presence of an A, B, C or D polypeptide in the sample,
CC where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a
CC PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801
```


PR	10-JUN-1998;	98US-0088740P;
PR	10-JUN-1998;	98US-0088811P;
PR	10-JUN-1998;	98US-0088824P;
PR	10-JUN-1998;	98US-0088825P;
PR	10-JUN-1998;	98US-0088826P;
PR	11-JUN-1998;	98US-0088861P;
PR	11-JUN-1998;	98US-0088863P;
PR	11-JUN-1998;	98US-0088876P;
PR	12-JUN-1998;	98US-0089090P;
PR	12-JUN-1998;	98US-0089105P;
PR	16-JUN-1998;	98US-0089512P;
PR	16-JUN-1998;	98US-0089514P;
PR	17-JUN-1998;	98US-0089538P;
PR	17-JUN-1998;	98US-0089598P;
PR	17-JUN-1998;	98US-0089653P;
PR	18-JUN-1998;	98US-0089908P;
PR	19-JUN-1998;	98US-0089952P;
PR	22-JUN-1998;	98US-0090246P;
PR	22-JUN-1998;	98US-0090252P;
PR	22-JUN-1998;	98US-0090254P;
PR	24-JUN-1998;	98US-0090429P;
PR	24-JUN-1998;	98US-0090435P;
PR	24-JUN-1998;	98US-0090444P;
PR	24-JUN-1998;	98US-0090461P;
PR	24-JUN-1998;	98US-0090535P;
PR	24-JUN-1998;	98US-0090540P;
PR	25-JUN-1998;	98US-0090676P;
PR	25-JUN-1998;	98US-0090678P;
PR	25-JUN-1998;	98US-0090688P;
PR	25-JUN-1998;	98US-0090690P;
PR	25-JUN-1998;	98US-0090694P;
PR	25-JUN-1998;	98US-0090695P;
PR	25-JUN-1998;	98US-0090696P;
PR	26-JUN-1998;	98US-00105413;
PR	26-JUN-1998;	98US-0090862P;
PR	26-JUN-1998;	98US-0090863P;
PR	26-JUN-1998;	98US-0091010P;
PR	01-JUL-1998;	98US-0091359P;
PR	01-JUL-1998;	98US-0091544P;
PR	02-JUL-1998;	98US-0091478P;
PR	02-JUL-1998;	98US-0091486P;
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PR	02-JUL-1998;	98US-0091628P;
PR	02-JUL-1998;	98US-0091632P;
PR	24-JUL-1998;	98US-0094006P;
PR	04-AUG-1998;	98US-0095282P;
PR	10-AUG-1998;	98US-0095998P;
PR	10-AUG-1998;	98US-0096012P;
PR	17-AUG-1998;	98US-0096757P;
PR	17-AUG-1998;	98US-0096766P;
PR	17-AUG-1998;	98US-0096867P;
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PR	17-AUG-1998;	98US-0096897P;
PR	18-AUG-1998;	98US-0096949P;
PR	18-AUG-1998;	98US-0096959P;
PR	18-AUG-1998;	98US-0097022P;
PR	26-AUG-1998;	98US-0097952P;
PR	26-AUG-1998;	98US-0097954P;
PR	26-AUG-1998;	98US-0097955P;
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PR	26-AUG-1998;	98US-0098014P;
PR	01-SEP-1998;	98US-0098716P;
PR	01-SEP-1998;	98US-0098723P;
PR	02-SEP-1998;	98US-0098803P;
PR	02-SEP-1998;	98US-0098821P;
PR	02-SEP-1998;	98US-0098843P;
PR	09-SEP-1998;	98US-0099602P;
PR	10-SEP-1998;	98US-0099741P;
PR	10-SEP-1998;	98US-0099754P;
PR	10-SEP-1998;	98US-0099762P;
PR	10-SEP-1998;	98US-0099812P;
PR	15-SEP-1998;	98US-0100388P;

PR	16-SEP-1998;	98US-0100662P;
PR	16-SEP-1998;	98US-0100664P;
PR	16-SEP-1998;	98US-0101751P;
PR	16-SEP-1998;	98WO-US019330;
PR	17-SEP-1998;	98US-0100683P;
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PR	18-SEP-1998;	98US-0100849P;
PR	18-SEP-1998;	98US-0101014P;
PR	18-SEP-1998;	98US-0101068P;
PR	23-SEP-1998;	98US-0101471P;
PR	23-SEP-1998;	98US-0101472P;
PR	23-SEP-1998;	98US-0101475P;
PR	23-SEP-1998;	98US-0101477P;
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PR	24-SEP-1998;	98US-0101743P;
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PR	29-SEP-1998;	98US-0102207P;
PR	29-SEP-1998;	98US-0102240P;
PR	29-SEP-1998;	98US-0102330P;
PR	29-SEP-1998;	98US-0102331P;
PR	30-SEP-1998;	98US-0102487P;
PR	30-SEP-1998;	98US-0102570P;
PR	30-SEP-1998;	98US-0102584P;
PR	01-OCT-1998;	98US-0102687P;
PR	01-OCT-1998;	98US-0102687P;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;

Qy	2121	CCTTTGGCTTTACCACTCTTTTCCTTTATCTATTATAAAAAATGTTGGTCTCCACCACACTG	2180
Db	2653	CCTTTTCCTTCCCCCATCTCTTGTAACAATTTAATAAAATAAGGGTTGGCTTCTGAACATA	2712
Qy	2181	NCTCCCAA	2240
Db	2713	CAAA	2772
Qy	2241	AA	2242
Db	2773	AA	2774

RESULT 303

ACA73469
ID ACA73469 standard: cDNA; 2846 BP.

ACA73469:

01-JUL-2003 (first entry)

Human secreted/transmembrane protein (PRO) cDNA #85.

Human; ss; gene; secreted protein; transmembrane protein; PRO; tumour;
KW proliferation; differentiation; chondrocyte cells;
KW tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
KW

OS Homo sapiens.

XX PN US2003036146-A1.

PD 20-FEB-2003.

02-JUL-2002: 2002US-00187603.

PR 26-JUN-1998; 98US-00105413.

PR 07-OCT-1998: 98US-00168978:

[illegible]

PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.

(GETH) GENENTECH INC.

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

WPI; 2003-332034/31.
P-PSDB; ABU86277.

Three hundred and five nucleic acids encoding PRO polypeptides, useful in
gene therapy, chromosome identification, tissue typing, and for detecting
the presence of tumor in a mammal.

XX Claim 2; Fig 169; 707pp; English.
PS
XX
CC The invention relates to three hundred and five nucleic acids encoding
CC PRO polypeptides (secreted and transmembrane), sequences 80% identical to
CC them, or encoding a PRO polypeptide lacking its associated signal peptide
CC or an extracellular domain of the PRO polypeptide, with or lacking its
CC associated signal peptide. Also included are the encoded PRO proteins,
CC PRO expression vectors, host cells transformed with the vector (used to
CC produce PRO proteins), a chimaeric molecule comprising the PRO
CC polypeptide fused to a heterologous amino acid sequence, an anti-PRO
CC antibody, a method for stimulating the release of tumor necrosis factor
CC alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,
CC PRO827, PRO791, PRO1131, PRO1316, PRO1183, PRO1343, PRO1760, PRO1567 or
CC PRO4333), a method for stimulating the proliferation or differentiation
CC of chondrocyte cells by contacting the cells with a PRO6029 polypeptide,
CC a method for detecting the presence of tumour in a mammal and an
CC oligonucleotide probe derived from any of the nucleotide sequences cited
CC above. The PRO polypeptide or anti-PRO antibody is useful for preparing a
CC medicament for treating a condition that is responsive to the PRO
CC polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful
CC as hybridisation probes in chromosome and gene mapping, or in generating
CC antisense RNA and DNA. PRO nucleic acids are also useful in preparing PRO
CC polypeptides, in assays to identify other proteins or molecules involved
CC in a binding reaction, to generate transgenic animals or knockout
CC animals, which in turn are useful in the development and screening of
CC therapeutically useful reagents, for chromosome identification, and
CC tissue typing. The PRO polypeptides and nucleic acid molecules are also
CC useful for detecting the presence of a tumour in a mammal, stimulating
CC proliferation or differentiation of chondrocyte cells, stimulating the
CC release of tumour necrosis factor-alpha from human blood, in gene
CC therapy, or as molecular weight markers for protein electrophoresis
CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
CC PRO, or for the affinity purification of PRO from recombinant cell
CC culture or natural sources. The present sequence is a cDNA encoding a PRO
CC protein
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CCTTGTCTTTACCACCTCTTCTCTTTTATCTTATTATAATAATGTTGGTCTCCACCACTG 2180
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CCTTTCTCTCCCATCTCTGTACACATTTTAATAAATAAGGGTTCCTGAACTA 2712

Qy 2181 NCTCCCAA 2240
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAAA 2772

Qy 2241 AA 2242
||
Db 2773 AA 2774

RESULT 304
ACA05784
ID ACA05784 standard; cDNA; 2846 BP.
XX
AC ACA05784;
XX
DT 29-MAY-2003 (first entry)
XX
DE Human secreted/transmembrane protein (PRO) cDNA #85.
XX
KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing.
XX
OS Homo sapiens.
XX
PN US2003036162-A1.

XX
PD
XX
PF
XX
PR 20-FEB-2003.
PR 12-JUL-2002; 2002US-00194423.
PR 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 18-OCT-1999; 99US-00403297.
PR 12-NOV-1999; 99US-00423844.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028551.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 22-AUG-2000; 2000US-00644848.
PR 24-AUG-2000; 2000WO-US023328.
PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.

(GETH) GENENTECH INC.

XX
PA
XX

PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-332039/31.
DR P-PSDB; ABU67490.
XX
PT New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, in chromosome and gene mapping, as chromosome markers,
PT in tissue typing, and in chromosome identification.
XX
PS Claim 2; Fig 169; 706pp; English.
XX
CC The invention discloses human nucleic acids encoding secreted and
CC transmembrane (PRO) polypeptides. Also disclosed is an antibody that
CC specifically binds to the PRO polypeptide, a method for stimulating the
CC release of tumour necrosis factor alpha (TNF-alpha) from human blood by
CC contacting the blood a PRO polypeptide, a method for stimulating the
CC proliferation or differentiation of chondrocyte cells by contacting the
CC cells with a PRO polypeptide, a method for detecting the presence of a
CC tumour in a mammal and an oligonucleotide probe derived from any of the
CC PRO nucleotide sequences. The nucleotide sequences are useful as probes,
CC in chromosome and gene mapping, in generating antisense RNA and DNA, in
CC preparing PRO polypeptides by recombinant techniques and in gene therapy
CC (e.g. for replacement of defective gene). The PRO polypeptides are useful
CC as molecular weight markers for protein electrophoresis purposes, for
CC chromosome identification, as chromosome markers, as therapeutic agents,
CC for stimulating the release of TNF-alpha from human blood, for
CC stimulating the proliferation or differentiation of chondrocytes and
CC detecting the presence of a tumour. The PRO polypeptides and nucleic
CC acids may also be used diagnostically for tissue typing. The sequences
CC presented in ACA05700-ACA06004 are the cDNAs encoding the PRO
CC polypeptides of the invention
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;
QY 2121 CCTTTGCTTTACCACTCTTTCTTTTATCTTATTAATAAAATGTTGGTCTCCACCACTG 2180
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CCTTTTCTCTCCCATCTCTGTACACATTTTAAATAAATAGGGTTGGCTTCTGAACTA 2712
QY 2181 NCTCCCAA 2240
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAAA 2772
QY 2241 AA 2242
Db ||
Db 2773 AA 2774

RESULT 305
ACA66618
ID ACA66618 standard; cDNA; 2846 BP.
XX
AC ACA66618;
XX
DT 23-JUN-2003 (first entry)
XX
DE cDNA encoding human PRO protein #85.
XX
KW Human; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
KW liver; PRO; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003036137-A1.
XX
PD 20-FEB-2003.
XX
PF 27-JUN-2002; 2002US-00184640.
XX

CC animals useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC molecular weight markers for protein electrophoresis, chromosome
CC identification and tissue typing. The antibodies may be used in various
CC diagnostic, competitive binding and/or immunoprecipitation assays. The
CC present sequence encodes a PRO polypeptide
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Qy 2121 CTTTGCTTTACCACCTCTTCCTTTATCTTATTAATAAAAAATGTTGGTCTCCACCACTG 2180
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2653 CTTTTCCTCCCATCTCTGTACACATTTTAATAAATAAGGTTGGCTTCTGAACTA 2712

Qy 2181 NCTCCCAAAAAA AA 2240
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2713 CAAAAA AA 2772

Qy 2241 AA 2242
||
Db 2773 AA 2774

RESULT 309
ACF20193
ID ACF20193 standard; cDNA; 2846 BP.
XX
AC ACF20193;
XX
DT 18-SEP-2003 (first entry)
XX
DE Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.
XX
KW KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003040063-A1.
XX
PD 27-FEB-2003.
XX
PF 26-JUN-2002; 2002US-00183006.
XX

PR 18-SEP-1997; 97US-0059263P.
PR 18-SEP-1997; 97US-0059266P.
PR 17-OCT-1997; 97US-0062250P.
PR 21-OCT-1997; 97US-0063486P.
PR 24-OCT-1997; 97US-0063120P.
PR 28-OCT-1997; 97US-0063540P.
PR 28-OCT-1997; 97US-0063541P.
PR 28-OCT-1997; 97US-0063544P.
PR 28-OCT-1997; 97US-0063564P.
PR 29-OCT-1997; 97US-0063734P.
PR 31-OCT-1997; 97US-0063870P.
PR 31-OCT-1997; 97US-0064103P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066120P.
PR 24-NOV-1997; 97US-0066466P.
PR 24-NOV-1997; 97US-0066772P.
PR 11-DEC-1997; 97US-0069335P.
PR 12-DEC-1997; 97US-0069425P.
PR 17-DEC-1997; 97US-0069870P.
PR 18-DEC-1997; 97US-0068017P.

PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078939P.
PR 27-MAR-1998; 98US-0079664P.
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PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080194P.
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PR 01-APR-1998; 98US-0080333P.
PR 08-APR-1998; 98US-0081049P.
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PR 22-APR-1998; 98US-0082704P.
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PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
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PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
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PR 15-MAY-1998; 98US-0085579P.
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PR 18-MAY-1998; 98US-0086023P.
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PR 28-MAY-1998; 98US-0087098P.
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PR 02-JUN-1998; 98US-0087609P.
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PR 03-JUN-1998; 98US-0087827P.
PR 04-JUN-1998; 98US-0088025P.
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PR 05-JUN-1998; 98US-0088202P.
PR 05-JUN-1998; 98US-0088212P.
PR 05-JUN-1998; 98US-0088217P.
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PR 10-JUN-1998; 98US-0088740P.
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PR 10-JUN-1998; 98US-0088826P.
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PR 11-JUN-1998; 98US-0088876P.
PR 12-JUN-1998; 98US-0089090P.
PR 12-JUN-1998; 98US-0089105P.
PR 16-JUN-1998; 98US-0089512P.
PR 16-JUN-1998; 98US-0089514P.
PR 17-JUN-1998; 98US-0089538P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089598P.
PR 17-JUN-1998; 98US-0089598P.
PR 18-JUN-1998; 98US-0089653P.
PR 19-JUN-1998; 98US-0089952P.
PR 22-JUN-1998; 98US-0090246P.
PR 22-JUN-1998; 98US-0090252P.
PR 22-JUN-1998; 98US-0090254P.

PR	24-JUN-1998;	98US-0090429P.
PR	24-JUN-1998;	98US-0090435P.
PR	24-JUN-1998;	98US-0090444P.
PR	24-JUN-1998;	98US-0090461P.
PR	24-JUN-1998;	98US-0090535P.
PR	24-JUN-1998;	98US-0090540P.
PR	25-JUN-1998;	98US-0090676P.
PR	25-JUN-1998;	98US-0090678P.
PR	25-JUN-1998;	98US-0090688P.
PR	25-JUN-1998;	98US-0090690P.
PR	25-JUN-1998;	98US-0090694P.
PR	25-JUN-1998;	98US-0090695P.
PR	25-JUN-1998;	98US-0090696P.
PR	26-JUN-1998;	98US-00105413.
PR	26-JUN-1998;	98US-0090862P.
PR	26-JUN-1998;	98US-0090863P.
PR	26-JUN-1998;	98US-0091010P.
PR	01-JUL-1998;	98US-0091359P.
PR	01-JUL-1998;	98US-0091544P.
PR	02-JUL-1998;	98US-0091478P.
PR	02-JUL-1998;	98US-0091486P.
PR	02-JUL-1998;	98US-0091626P.
PR	02-JUL-1998;	98US-0091628P.
PR	02-JUL-1998;	98US-0091632P.
PR	24-JUL-1998;	98US-0094006P.
PR	04-AUG-1998;	98US-0095282P.
PR	10-AUG-1998;	98US-0095998P.
PR	10-AUG-1998;	98US-0096012P.
PR	17-AUG-1998;	98US-0096757P.
PR	17-AUG-1998;	98US-0096766P.
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PR	17-AUG-1998;	98US-0096891P.
PR	17-AUG-1998;	98US-0096897P.
PR	18-AUG-1998;	98US-0096949P.
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PR	26-AUG-1998;	98US-0097952P.
PR	26-AUG-1998;	98US-0097954P.
PR	26-AUG-1998;	98US-0097955P.
PR	26-AUG-1998;	98US-0097971P.
PR	26-AUG-1998;	98US-0097974P.
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PR	01-SEP-1998;	98US-0098716P.
PR	01-SEP-1998;	98US-0098723P.
PR	02-SEP-1998;	98US-0098803P.
PR	02-SEP-1998;	98US-0098821P.
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PR	09-SEP-1998;	98US-0099602P.
PR	10-SEP-1998;	98US-0099741P.
PR	10-SEP-1998;	98US-0099754P.
PR	10-SEP-1998;	98US-0099763P.
PR	10-SEP-1998;	98US-0099812P.
PR	15-SEP-1998;	98US-0100388P.
PR	16-SEP-1998;	98US-0100662P.
PR	16-SEP-1998;	98US-0100664P.
PR	16-SEP-1998;	98US-0101751P.
PR	16-SEP-1998;	98WO-US019330.
PR	17-SEP-1998;	98US-0100683P.
PR	17-SEP-1998;	98US-0100684P.
PR	17-SEP-1998;	98US-0100919P.
PR	17-SEP-1998;	98US-0100930P.
PR	18-SEP-1998;	98US-0100849P.
PR	18-SEP-1998;	98US-0101014P.
PR	18-SEP-1998;	98US-0101068P.
PR	23-SEP-1998;	98US-0101471P.
PR	23-SEP-1998;	98US-0101472P.
PR	23-SEP-1998;	98US-0101475P.
PR	23-SEP-1998;	98US-0101477P.
PR	24-SEP-1998;	98US-0101738P.
PR	24-SEP-1998;	98US-0101739P.
PR	24-SEP-1998;	98US-0101743P.
PR	24-SEP-1998;	98US-0101922P.
PR	25-SEP-1998;	98US-0101786P.
PR	29-SEP-1998;	98US-0102207P.
PR	29-SEP-1998;	98US-0102240P.
PR	29-SEP-1998;	98US-0102330P.
PR	29-SEP-1998;	98US-0102331P.
PR	30-SEP-1998;	98US-0102487P.
PR	30-SEP-1998;	98US-0102570P.
PR	30-SEP-1998;	98US-0102571P.
PR	01-OCT-1998;	98US-0102684P.
PR	01-OCT-1998;	98US-0102687P.
Query Match 3.0%; Score 66.6; DB 8; Length 2846;		
Best Local Similarity 71.3%; Pred. No. 0.00023;		
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;		
QY	2121 CCTTTGCTTTACCACCTCTTTCCTTTTATCTTTATTAATAAAATGTTGGTCTCCACCAC	2180
Db		2712
QY	2181 NCTCCCAA	2240
Db	2713 CAA	2772
QY	2241 AA 2242	
Db		
	2773 AA 2774	
RESULT 310		
ACF19579		
ID	ACF19579 standard; cDNA; 2846 BP.	
XX	AC	ACF19579;
XX	DT	17-SEP-2003 (first entry)
DE	Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.	
XX	Human; PRO; secreted protein; transmembrane protein; extracellular domain; tumour necrosis factor-alpha; TNF-alpha; chondrocyte; proliferation; differentiation; cartilage disorder; bone disorder; arthritis; sports injury; cancer; tumour; diagnosis; adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix; liver; drug screening; transgenic animal; genetic analysis; antiarthritic; vulnerary; gene therapy; gene; ss.	
XX	Homo sapiens.	
OS	US2003040064-A1.	
XX	27-FEB-2003.	
XX	26-JUN-2002; 2002US-00183008.	
PR	18-SEP-1997;	97US-0059263P.
PR	18-SEP-1997;	97US-0059266P.
PR	17-OCT-1997;	97US-0062250P.
PR	21-OCT-1997;	97US-0063486P.
PR	24-OCT-1997;	97US-0063120P.
PR	24-OCT-1997;	97US-0063121P.
PR	28-OCT-1997;	97US-0063540P.
PR	28-OCT-1997;	97US-0063541P.
PR	28-OCT-1997;	97US-0063544P.
PR	28-OCT-1997;	97US-0063564P.
PR	29-OCT-1997;	97US-0063734P.
PR	31-OCT-1997;	97US-0063870P.
PR	31-OCT-1997;	97US-0064103P.
PR	13-NOV-1997;	97US-0065311P.
PR	21-NOV-1997;	97US-0066120P.
PR	24-NOV-1997;	97US-0066466P.
PR	24-NOV-1997;	97US-0066772P.
PR	11-DEC-1997;	97US-0069335P.
PR	12-DEC-1997;	97US-0069425P.
PR	17-DEC-1997;	97US-0069870P.

PR 18-DEC-1997; 97US-0068017P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077649P.
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DT 19-SEP-2003 (first entry)

Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.

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KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnervary; gene therapy; gene; ss.
KW

xx Homo sapiens.

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20-MAR-2003.

22-JUL-2002: 2002US-00201530.

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PR 15--JAN-2002; 2002US-00052586

XX
PA (CETH) GENENTECH INC.

PI Baker KB Chen J. Degno

PI Pan J, Smith V, Wata

DR WPI; 2003-503631/41.
D DCDR. APP79311

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QY	2121	CCTTTGCTTTTACCACACTCTTTCCCTTTTATCTTATTATTAATAAAATGTTGGTCTCCACCACATG 2180
Db	2653	CCTTTTCCTTCCCATCTCTGTGTACACATTTTAATAAAATAAGGTTGGCTTCTGAACATA 2712
QY	2181	NCTCCCAAA 2240
Db	2713	CAAA 2772
QY	2241	AA 2242
Db	2773	AA 2774
RESULT 322		
ACD12331		

ID	ACD12331 standard; cDNA; 2846 BP.	PR	15-MAY-1998;	98US-0085580P.
XX		PR	15-MAY-1998;	98US-0085582P.
AC	ACD12331;	PR	15-MAY-1998;	98US-0085700P.
XX		PR	18-MAY-1998;	98US-0086023P.
DT	13-AUG-2003 (first entry)	PR	22-MAY-1998;	98US-0086392P.
XX		PR	22-MAY-1998;	98US-0086486P.
DE	Novel human secreted and transmembrane protein PRO1344 cDNA.	PR	28-MAY-1998;	98US-0087098P.
XX		PR	28-MAY-1998;	98US-0087208P.
KW	Human; secreted and transmembrane protein; PRO; gene therapy;	PR	02-JUN-1998;	98US-0087609P.
KW	chondrocyte stimulator; chromosome mapping; gene mapping;	PR	02-JUN-1998;	98US-0087759P.
KW	transgenic animal; knockout animal; tissue typing;	PR	03-JUN-1998;	98US-0087827P.
KW	chondrocyte proliferation; chondrocyte differentiation;	PR	04-JUN-1998;	98US-0088025P.
KW	tumour necrosis factor-alpha stimulation; TNF-alpha stimulation; gene;	PR	04-JUN-1998;	98US-0088028P.
KW	ss.	PR	04-JUN-1998;	98US-0088029P.
XX		PR	04-JUN-1998;	98US-0088033P.
OS	Homo sapiens;	PR	04-JUN-1998;	98US-0088326P.
XX		PR	04-JUN-1998;	98US-0088167P.
PN	US2003022294-A1.	PR	05-JUN-1998;	98US-0088202P.
XX		PR	05-JUN-1998;	98US-0088212P.
PD	30-JAN-2003.	PR	05-JUN-1998;	98US-0088217P.
XX		PR	09-JUN-1998;	98US-0088655P.
PF	19-JUN-2002; 2002US-00175738.	PR	10-JUN-1998;	98US-0088722P.
XX		PR	10-JUN-1998;	98US-0088738P.
PR	18-SEP-1997; 97US-0059263P.	PR	10-JUN-1998;	98US-0088740P.
PR	18-SEP-1997; 97US-0059266P.	PR	10-JUN-1998;	98US-0088811P.
PR	17-OCT-1997; 97US-0062250P.	PR	10-JUN-1998;	98US-0088824P.
PR	21-OCT-1997; 97US-0063486P.	PR	10-JUN-1998;	98US-0088825P.
PR	24-OCT-1997; 97US-0063120P.	PR	10-JUN-1998;	98US-0088826P.
PR	24-OCT-1997; 97US-0063121P.	PR	11-JUN-1998;	98US-0088861P.
PR	28-OCT-1997; 97US-0063540P.	PR	11-JUN-1998;	98US-0088863P.
PR	28-OCT-1997; 97US-0063541P.	PR	11-JUN-1998;	98US-0088876P.
PR	28-OCT-1997; 97US-0063544P.	PR	12-JUN-1998;	98US-0089090P.
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PR	29-OCT-1997; 97US-0063734P.	PR	16-JUN-1998;	98US-0089512P.
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PR	13-NOV-1997; 97US-0065311P.	PR	17-JUN-1998;	98US-0089598P.
PR	21-NOV-1997; 97US-0066120P.	PR	17-JUN-1998;	98US-0089653P.
PR	24-NOV-1997; 97US-0066466P.	PR	18-JUN-1998;	98US-0089908P.
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PR	11-DEC-1997; 97US-0069335P.	PR	22-JUN-1998;	98US-0090246P.
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PR	11-MAR-1998; 98US-0077632P.	PR	24-JUN-1998;	98US-0090444P.
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PR	27-MAR-1998; 98US-0079664P.	PR	25-JUN-1998;	98US-0090676P.
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PR	31-MAR-1998; 98US-0080107P.	PR	25-JUN-1998;	98US-0090688P.
PR	31-MAR-1998; 98US-0080194P.	PR	25-JUN-1998;	98US-0090690P.
PR	01-APR-1998; 98US-0080327P.	PR	25-JUN-1998;	98US-0090694P.
PR	01-APR-1998; 98US-0080333P.	PR	25-JUN-1998;	98US-0090695P.
PR	08-APR-1998; 98US-0081049P.	PR	25-JUN-1998;	98US-0090696P.
PR	08-APR-1998; 98US-0081070P.	PR	26-JUN-1998;	98US-00105413.
PR	09-APR-1998; 98US-0081195P.	PR	26-JUN-1998;	98US-0090862P.
PR	15-APR-1998; 98US-0081838P.	PR	26-JUN-1998;	98US-0090863P.
PR	21-APR-1998; 98US-0082568P.	PR	26-JUN-1998;	98US-0091010P.
PR	21-APR-1998; 98US-0082569P.	PR	26-JUN-1998;	98US-0091010P.
PR	22-APR-1998; 98US-0082704P.	PR	01-JUL-1998;	98US-0091359P.
PR	22-APR-1998; 98US-0082797P.	PR	01-JUL-1998;	98US-0091544P.
PR	28-APR-1998; 98US-0083322P.	PR	02-JUL-1998;	98US-0091478P.
PR	29-APR-1998; 98US-0083495P.	PR	02-JUL-1998;	98US-0091486P.
PR	29-APR-1998; 98US-0083496P.	PR	02-JUL-1998;	98US-0091626P.
PR	29-APR-1998; 98US-0083499P.	PR	02-JUL-1998;	98US-0091628P.
PR	29-APR-1998; 98US-0083559P.	PR	02-JUL-1998;	98US-0091632P.
PR	05-MAY-1998; 98US-0084366P.	PR	24-JUL-1998;	98US-0094006P.
PR	06-MAY-1998; 98US-0084414P.	PR	04-AUG-1998;	98US-0095282P.
PR	07-MAY-1998; 98US-0084639P.	PR	10-AUG-1998;	98US-0095998P.
PR	07-MAY-1998; 98US-0084640P.	PR	10-AUG-1998;	98US-0096012P.
PR	15-MAY-1998; 98US-0085579P.	PR	17-AUG-1998;	98US-0096757P.
PR		PR	17-AUG-1998;	98US-0096766P.

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PR	17-AUG-1998;	98US-0096867P.	ACC74246	
PR	17-AUG-1998;	98US-0096891P.	ID	ACC74246 standard; cDNA; 2846 BP.
PR	17-AUG-1998;	98US-0096897P.	XX	
PR	18-AUG-1998;	98US-0096949P.	AC	ACC74246;
PR	18-AUG-1998;	98US-0096959P.	XX	
PR	18-AUG-1998;	98US-0097022P.	DT	28-JUL-2003 (first entry)
PR	26-AUG-1998;	98US-0097952P.	XX	
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PR	26-AUG-1998;	98US-0097955P.	XX	
PR	26-AUG-1998;	98US-0097971P.	KW	Human; PRO; secreted protein; transmembrane protein;
PR	26-AUG-1998;	98US-0098014P.	KW	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
PR	01-SEP-1998;	98US-0098716P.	KW	chondrocyte; proliferation; differentiation; cartilage disorder;
PR	01-SEP-1998;	98US-0098723P.	KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
PR	02-SEP-1998;	98US-0098803P.	KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
PR	02-SEP-1998;	98US-0098821P.	KW	liver; drug screening; transgenic animal; genetic analysis;
PR	02-SEP-1998;	98US-0098843P.	KW	antiarthritic; vulnery; gene therapy; gene; ss.
PR	09-SEP-1998;	98US-0099602P.	XX	
PR	10-SEP-1998;	98US-0099741P.	OS	Homo sapiens.
PR	10-SEP-1998;	98US-0099754P.	XX	
PR	10-SEP-1998;	98US-0099763P.	PN	US2003027275-A1.
PR	10-SEP-1998;	98US-0099812P.	XX	
PR	15-SEP-1998;	98US-0100388P.	PD	06-FEB-2003.
PR	16-SEP-1998;	98US-0100662P.	XX	
PR	16-SEP-1998;	98US-0100664P.	XX	
PR	16-SEP-1998;	98US-0101751P.	PR	18-SEP-1997;
PR	16-SEP-1998;	98US-0101751P.	PR	18-SEP-1997;
PR	17-SEP-1998;	98US-0100683P.	PR	17-OCT-1997;
PR	17-SEP-1998;	98US-0100684P.	PR	21-OCT-1997;
PR	17-SEP-1998;	98US-0100919P.	PR	24-OCT-1997;
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PR	18-SEP-1998;	98US-0100849P.	PR	28-OCT-1997;
PR	18-SEP-1998;	98US-0101014P.	PR	28-OCT-1997;
PR	18-SEP-1998;	98US-0101068P.	PR	28-OCT-1997;
PR	23-SEP-1998;	98US-0101471P.	PR	28-OCT-1997;
PR	23-SEP-1998;	98US-0101472P.	PR	29-OCT-1997;
PR	23-SEP-1998;	98US-0101475P.	PR	31-OCT-1997;
PR	23-SEP-1998;	98US-0101477P.	PR	31-OCT-1997;
PR	24-SEP-1998;	98US-0101738P.	PR	13-NOV-1997;
PR	24-SEP-1998;	98US-0101739P.	PR	21-NOV-1997;
PR	24-SEP-1998;	98US-0101743P.	PR	24-NOV-1997;
PR	24-SEP-1998;	98US-0101922P.	PR	24-NOV-1997;
PR	25-SEP-1998;	98US-0101786P.	PR	11-DEC-1997;
PR	29-SEP-1998;	98US-0102207P.	PR	12-DEC-1997;
PR	29-SEP-1998;	98US-0102240P.	PR	17-DEC-1997;
PR	29-SEP-1998;	98US-0102330P.	PR	18-DEC-1997;
PR	29-SEP-1998;	98US-0102331P.	PR	10-MAR-1998;
PR	30-SEP-1998;	98US-0102487P.	PR	11-MAR-1998;
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PR	30-SEP-1998;	98US-0102571P.	PR	20-MAR-1998;
PR	01-OCT-1998;	98US-0102684P.	PR	20-MAR-1998;
PR	01-OCT-1998;	98US-0102687P.	PR	27-MAR-1998;
PR	02-OCT-1998;	98US-0102965P.	PR	27-MAR-1998;
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			PR	31-MAR-1998;
			PR	01-APR-1998;
			PR	01-APR-1998;
			PR	08-APR-1998;
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QY	2121 CCTTTGCTTACCACCTCTTCCCTTTATCTTATTATAATAAATGTTGGTCTCCACACTG	2180	PR	09-APR-1998;
Db	2653 CCTTTCTCTCCCATCTCTGTACACATTTTATAATAAATAAGGTTGGCTTCTGAACTA	2712	PR	15-APR-1998;
			PR	21-APR-1998;
QY	2181 NCTCCAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	2240	PR	21-APR-1998;
Db	2713 CAAAAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAAATAA	2772	PR	22-APR-1998;
			PR	28-APR-1998;
QY	2241 AA 2242		PR	29-APR-1998;
Db	2773 AA 2774		PR	29-APR-1998;
			PR	05-MAY-1998;
			PR	06-MAY-1998;
			PR	07-MAY-1998;

RESULT 323

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RESULT 324
ACD15874
ID ACD15874 standard; cDNA; 2846 BP.
XX AC ACD15874;
XX DT 17-AUG-2003 (first entry)
XX DE Human secreted/transmembrane protein (PRO) cDNA #85.
XX KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX OS Homo sapiens.
XX PN US2003027324-A1.
XX PD 06-FEB-2003.
XX PF 21-JUN-2002; 2002US-00176991.
XX PR 18-SEP-1997; 97US-0059263P.
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PR	10-SEP-1998;	98US-0099754P
PR	10-SEP-1998;	98US-0099763P
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PR	17-SEP-1998;	98US-0100683P
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PR	24-SEP-1998;	98US-0101739P
PR	24-SEP-1998;	98US-0101743P
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Qy	2181	NCTCCCAA	2240		
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DT	27-AUG-2003 (first entry)
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KW	gene mapping; transgenic animal; knockout animal; tissue typing;
KW	chromosome identification; tumour; chondrocyte proliferation;
KW	chondrocyte differentiation; tumour necrosis factor-alpha release;
KW	gene therapy; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	US2003036118-A1.
XX	
PD	20-FEB-2003.
XX	
PF	21-JUN-2002; 2002US-00176760.
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PR	26-JUN-1998; 98US-00105413.
PR	16-SEP-1998; 98WO-US019330.
PR	07-OCT-1998; 98US-00168978.
PR	07-OCT-1998; 98WO-US021141.
PR	06-NOV-1998; 98US-00187368.
PR	01-DEC-1998; 98WO-US025108.
PR	07-DEC-1998; 98US-00202054.
PR	03-MAR-1999; 99US-00254311.
PR	08-MAR-1999; 99WO-US005028.
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PR	14-MAY-1999; 99WO-US010733.
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PR	25-AUG-1999; 99US-00380137.
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PR	01-SEP-1999; 99WO-US020111.
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PR	18-OCT-1999; 99US-00403297.
PR	12-NOV-1999; 99US-00423844.
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PR	30-DEC-1999; 99WO-US031274.
PR	05-JAN-2000; 2000WO-US000219.
PR	18-FEB-2000; 2000WO-US004341.
PR	18-FEB-2000; 2000WO-US004342.
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PR	24-FEB-2000; 2000WO-US005004.
PR	01-MAR-2000; 2000WO-US005601.
PR	02-MAR-2000; 2000WO-US005841.
PR	15-MAR-2000; 2000WO-US006884.
PR	30-MAR-2000; 2000WO-US008439.
PR	17-MAY-2000; 2000WO-US013705.
PR	22-MAY-2000; 2000WO-US014042.
PR	30-MAY-2000; 2000WO-US014941.
PR	02-JUN-2000; 2000WO-US015264.
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PR	22-AUG-2000; 2000US-00644848.
PR	24-AUG-2000; 2000WO-US023328.
PR	18-SEP-2000; 2000US-00664610.
PR	18-SEP-2000; 2000US-00665350.
PR	08-NOV-2000; 2000US-00709238.
PR	08-NOV-2000; 2000WO-US030952.
PR	01-DEC-2000; 2000WO-US032678.
PR	20-DEC-2000; 2000US-00747259.
PR	20-DEC-2000; 2000WO-US034956.
PR	28-FEB-2001; 2001WO-US006520.
PR	22-MAR-2001; 2001US-00816744.

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PR 10-MAY-2001; 2001US-00854208.
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PR 05-JUN-2001; 2001US-00874503.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
PR 13-AUG-2001; 2001US-00929404.
PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX

(GETH) GENENTECH INC.

PA Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
XX Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

PI WPI; 2003-402071/38.
XX P-PSDB; ABO19195.

PT New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, chromosome identification, tissue typing, for detecting
PT the presence of tumor in a mammal, or as hybridization probes in gene
PT mapping.

XX Claim 2; SEQ ID NO 169; 707pp; English.

PS The invention describes a novel isolated PRO polypeptide. The PRO
XX polypeptide or anti-PRO antibody is useful for preparing a medicament for
CC treating a condition that is responsive to the PRO polypeptide or anti-
CC PRO antibody. The PRO nucleotide sequences are useful as hybridisation
CC probes in chromosome and gene mapping, or in generating antisense RNA and
CC DNA. PRO nucleic acids are also useful in preparing PRO polypeptides, in
CC assays to identify other proteins or molecules involved in binding
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful for detecting
CC the presence of tumour in a mammal, stimulating proliferation or
CC differentiation of chondrocyte cells, stimulating the release of tumour
CC necrosis factor-alpha from human blood, in gene therapy, or as molecular
CC weight markers for protein electrophoresis purposes. The anti-PRO
CC antibodies may be used in diagnostic assays for PRO, or for the affinity
CC purification of PRO from recombinant cell culture or natural sources.
CC This sequence encodes a novel human secreted and transmembrane PRO
CC polypeptide

XX Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

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QY 2181 NCTCCCAA 2240
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QY 2241 AA 2242
Db ||
2773 AA 2774

RESULT 326

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DT 25-AUG-2003 (first entry)
XX
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KW Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003036123-A1.
XX
PD 20-FEB-2003.
XX
PF 25-JUN-2002; 2002US-00180551.
XX
PR 18-SEP-1997; 97US-0059263P.
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PR 15-MAY-1998; 98US-0085579P.

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RESULT 327
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ID ACC88206 standard; cDNA; 2846 BP.
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AC ACC88206;
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DT 05-AUG-2003 (first entry)
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KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003036148-A1.
XX
PD 20-FEB-2003.
XX
PF 02-JUL-2002; 2002US-00187743.
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PR 01-OCT-1998; 98US-0102687P.
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Query Match      3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

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Db 2713 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA 2772

QY 2241 AA 2242
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Db 2773 AA 2774
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RESULT 328
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XX
DT 27-AUG-2003 (first entry)
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DE Human secreted/transmembrane protein (PRO) cDNA #85.
XX
KW Human; Gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003040060-A1.
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PD 27-FEB-2003.
XX
PF 24-JUN-2002; 2002US-00179525.
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DT 28-AUG-2003 (first entry)
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KW Human; Gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX
OS Homo sapiens.
XX
PN US2003044916-A1.
XX
PD 06-MAR-2003.
XX
PF 20-JUN-2002; 2002US-00176484.
XX
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Db	2713 CAAAAA	2772
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DT	cDNA encoding human secreted polypeptide PRO1344.	
XX	Human; ss; gene; gene therapy; tumour; cancer.	
DE	Homo sapiens.	
XX	US2003013855-A1.	
KN	16-JAN-2003.	
XX	03-MAY-2002; 2002US-00063616.	
PF	30-DEC-1998; 98KR-00062142.	
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PR	06-DEC-2001; 2001US-00006867.	
XX	(GETH) GENENTECH INC.	
PA	Baton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;	
XX	Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;	
PI	WFI; 2003-330485/31.	
XX	P-PSDB; ABU71524.	
DR	New isolated antibody specifically binding a PRO polypeptide, useful for	
DR	the preparation of a medicament for treating disorders with the aberrant	
XX	expression or activity of the PRO polypeptide, such as tumor conditions	
PT	and cancer.	
PT		

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XX Example 4; Page 104-105; 406pp; English.
PS
XX
CC The invention relates to an antibody that binds to a polypeptide with a
CC fully defined sequence given in the specification. The methods and
CC compositions (containing antibodies that specifically bind a PRO
CC polypeptide) of the present invention are useful for the preparation of a
CC medicament for the treatment of disorders associated with the aberrant
CC expression or activity of the PRO polypeptide, such as tumour conditions
CC and cancer. They can also be used to generate transgenic or knockout
CC animals useful in the development and screening of therapeutically useful
CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
CC molecular weight markers for protein electrophoresis, chromosome
CC identification and tissue typing. The PRO polypeptides are useful to
CC induce angiogenesis e.g wound healing; in the treatment of sports-related
CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
CC arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The
CC antibodies may be used in various diagnostic, competitive binding and/or
CC immunoprecipitation assays. The present sequence represents a cDNA
CC encoding a PRO polypeptide of the invention
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SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

Query Match      3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. NO. 0.00023;
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DT 19-MAY-2003 (first entry)
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KW Human; ss; gene; PRO; secreted protein; transmembrane protein;
KW cytosstatic; antiarthritic; osteopathic; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release; arthritis;
KW tumour necrosis factor alpha; chondrocyte cell; bone disorder;
KW cartilage disorder; sports injury.
XX
OS Homo sapiens.
XX
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PD 20-FEB-2003.
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PF 02-JUL-2002; 2002US-00188767.
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Db 2773 AA 2774

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DT 27-AUG-2003 (first entry)
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DE Human; gene; ss; secreted and transmembrane protein; PRO; TNF-alpha;
KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
KW tissue typing; adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour.
XX Homo sapiens.
OS
XX
XX US2003054483-A1.
XX
PD 20-MAR-2003.
XX
PF 26-JUL-2002; 2002US-00205907.
XX
XX 05-JUN-2000; 2000US-0209832P.
PR 28-FEB-2001; 2001WO-US006520.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH) GENENTECH INC.
XX

PI Baker KP, Chen J, Deencoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-479876/45.
DR P-PSDB; ABO15739.
XX
PT Three hundred and five nucleic acids encoding PRO polypeptides, useful
PT for the manufacture of a medicament for diagnosing or treating tumor or
PT for measuring or detecting expression of an associated gene.
XX
PS Claim 2; Fig 169; 699pp; English.
XX
CC The invention discloses human nucleic acids encoding secreted and
CC transmembrane (PRO) polypeptides, with or without their associated signal
CC peptide. Also disclosed is an antibody that specifically binds to the PRO
CC polypeptide, a method for stimulating the release of tumour necrosis
CC factor alpha (TNF-alpha) from human blood by contacting the blood with a
CC PRO polypeptide, a method for stimulating the proliferation or
CC differentiation of chondrocyte cells by contacting the cells with a PRO
CC polypeptide, a method for detecting the presence of a tumour in a mammal
CC and an oligonucleotide probe derived from any of the PRO nucleotide
CC sequences. The nucleotide sequences are useful as probes, in chromosome
CC and gene mapping, in generating antisense RNA and DNA, in preparing PRO
CC polypeptides by recombinant techniques and in gene therapy (e.g. for
CC replacement of defective gene). The PRO polypeptides are useful as
CC molecular weight markers for protein electrophoresis purposes, for
CC chromosome identification, as chromosome markers, as therapeutic agents,
CC for stimulating the release of TNF-alpha from human blood, for
CC stimulating the proliferation or differentiation of chondrocytes and
CC detecting the presence, prevention and/or treatment of a tumour, such as
CC adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumour.
CC The PRO polypeptides and nucleic acids may also be used diagnostically
CC for tissue typing. The sequence presented is a cDNA encoding one of the
CC PRO polypeptides of the invention. Note: The sequence data for this
CC patent can also be obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;
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Db 2773 AA 2774

RESULT 336
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AC ABX75625;
XX
XX 26-MAR-2003 (first entry)
DT
XX Human cDNA encoding secreted/transmembrane protein, PRO1344.

DE Human; ss; gene; secreted protein; transmembrane protein; PRO;
XX antiarthritic; vulnery; tumour necrosis factor-alpha;
KW chondrocyte cell proliferation; chondrocyte cell differentiation; tumour;
KW adrenal tumour; lung tumour; colon tumour; breast tumour;
KW prostate tumour; rectal tumour; cervical tumour; liver tumour;
KW bone disorder; cartilage disorder; arthritis; sports injury.
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AC	ACA64004;	
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DT	16-JUN-2003 (first entry)	
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DE	cDNA encoding human PRO polypeptide #19.	
KW	Human; PRO polypeptide; secreted and transmembrane protein;	
KW	anti-PRO antibody; diagnostic assay; gene expression; gene; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	US2002182638-A1.	

XX	05-DEC-2002.	
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PF	02-MAY-2002; 2002US-00063547.	
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PR	08-MAR-1999;	99WO-US005028.
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PR	25-AUG-1999;	99US-00380137.
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PR	10-MAY-2001;	2001US-00854280.
PR	30-MAY-2001;	2001US-00870574.
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PR	06-DEC-2001;	2001US-00006867.
XX		
PA	(GETH) GENENTECH INC.	
XX		
PI	Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;	
PI	Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;	
XX		
DR	WPI; 2003-328612/04.	
DR	P-PSDB; ABU72305.	
XX		
PT	An isolated secreted transmembrane polypeptide designated PRO, useful as a therapeutic agent.	
PT		
XX		
PS	Disclosure; Fig 37; 236pp; English.	
XX		
CC	The present invention relates to the isolation of novel human PRO polypeptides, and the polynucleotide sequences encoding them. The PRO polypeptides are secreted and transmembrane proteins. The PRO polypeptides and polynucleotides are useful for preparing a medicament useful in the treatment of a condition responsive to anti-PRO antibody.	
CC	Anti-PRO antibodies are useful in diagnostic assays for PRO, by detecting its expression in specific cells, tissues or serum, and for affinity purification of PRO from recombinant cell culture or natural sources.	
CC	ACA63986-ACA64069 represent cDNA sequences encoding the human PRO polypeptides of the invention	
XX		
SQ	Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;	

Query Match 3.0%; Score 66.6; DB 8; Length 2846;
Best Local Similarity 71.3%; Pred. No. 0.00023;
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

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Db	2653	CCTTTCTCTCCCATCTCTTGACACATTTTAATAATAAAGGTTGGCTTCTGAACATA	2712
QY	2181	NCTCCCAA	2240
Db	2713	CAA	2772
QY	2241	AA	2242
Db	2773	AA	2774
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XX	AC	ABX97828;	
XX	DT	16-MAY-2003 (first entry)	
XX	DE	Human PRO polynucleotide #85.	
XX	XX	Human; PRO; gene; ss; cytostatic; chromosome mapping; gene mapping;	
KW		protein electrophoresis; tumour necrosis factor-alpha; TNF-alpha; blood;	
KW		chondrocyte differentiation; chondrocyte proliferation; tumour.	
XX	OS	Homo sapiens.	
XX	PN	US2003032102-A1.	
XX	PD	13-FEB-2003.	
XX	PF	17-JUN-2002; 2002US-00173697.	
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PR	17-AUG-1998;	98US-0096757P.
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PR	10-SEP-1998;	98US-0099741P.
PR	10-SEP-1998;	98US-0099754P.
PR	10-SEP-1998;	98US-0099763P.
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Query Match 3.0%; Score 66.6; DB 8; Length 2846;		
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Db	2653	CCTTTTCCTTCCCATCTCTTGACACATTTTAAATAAAGGGTTGGCTTCTGAAC	2712
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DT	24-JUL-2003	(first entry)	
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DE	Novel human secreted and transmembrane protein PRO1344 cDNA.		
XX			
KW	Human; secreted and transmembrane protein; PRO; cytostatic; gene therapy;		
KW	chromosome mapping; gene mapping; transgenic animal; knock-out animal;		
KW	tumour; gene; ss.		
XX			
OS	Homo sapiens.		
XX			
PN	US2003036117-A1.		
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PD	20-FEB-2003.		
XX			
PF	21-JUN-2002; 2002US-00176751.		
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Best Local Similarity 71.3%; Pred. No. 0.00023;

Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

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KW		cytostatic; tumour necrosis factor-alpha; TNF-alpha; blood; tumour;
KW		chondrocyte cell; cancer; adrenal; lung; colon; breast; prostate; rectum;
KW		cervix; liver.
OS		Homo sapiens.
XX	PN	US2003032130-A1.
XX	PD	13-FEB-2003.
XX	PF	28-JUN-2002; 2002US-00184635.
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3.0%;

71.3%;

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Score 66.6;

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Conservative

DB 8;

0.00023;

0;

Length 2846;

Indels

0;

Gaps

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2121

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2713

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2772

Qy

2241

AA

2242

Db

2773

AA

2774

RESULT 342

ACC91078

ACC91078 standard; cDNA; 2846 BP.

XX

AC

ACC91078;

XX

DT

19-AUG-2003 (first entry)

XX

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XX

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Human; PRO; secreted protein; transmembrane protein;

XX

KW

extracellular domain; tumour necrosis factor-alpha; TNF-alpha;

XX

KW

chondrocyte; proliferation; differentiation; cartilage disorder;

XX

KW

bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;

XX

KW

adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;

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KW

liver; drug screening; transgenic animal; genetic analysis;

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KW

antiarthritic; vulneryary; gene therapy; gene; ss.

XX

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Homo sapiens.

XX

PN

US2003032138-A1.

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02-JUL-2002; 2002US-00187885.

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14-MAY-1999; 99WO-US010733.

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05-JAN-2000; 2000WO-US000219.

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22-FEB-2000; 2000WO-US004414.

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24-FEB-2000; 2000WO-US004914.

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24-FEB-2000; 2000WO-US005004.

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PR

17-MAY-2000; 2000WO-US013705.

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PR

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20-DEC-2000; 2000WO-US034956.

PR

28-FEB-2001; 2001WO-US006520.

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01-JUN-2001; 2001WO-US017800.

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20-JUN-2001; 2001WO-US019692.

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29-JUN-2001; 2001WO-US021066.

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09-JUL-2001; 2001WO-US021735.

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29-AUG-2001; 2001WO-US027099.

PR

15-JAN-2002; 2002US-00052586.

XX

(GETH) GENENTECH INC.

PA

Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;

XX

PI

Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

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PI

WPI; 2003-341977/32.

XX

DR

P-PSDB; ABR70047.

XX

DR

New secreted and transmembrane PRO polypeptide useful in preparing a medicament for treating a condition that is responsive to the PRO polypeptide or anti-PRO antibody.

XX

PT

Claim 2; Fig 169; 707pp; English.

XX

PT

The invention relates to human PRO secreted/transmembrane polypeptides (ABR69963-ABR70267) and nucleic acids encoding them (ACC90994-ACC91298).

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CC

The invention also relates to sequences at least 80% identical to the PRO nucleic acid and polypeptide sequences of the invention, a recombinant vectors and host cells comprising a PRO nucleic acid, a method for the recombinant production of a PRO polypeptide, antibodies against a PRO polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic acids encoding PRO polypeptides of the invention were initially identified via homology screening using consensus sequences based on the extracellular domain sequences from known secreted proteins. Human cDNA libraries containing sequences of interest were identified using oligonucleotides based on the consensus sequences, and cDNA clones were isolated and characterised. The PRO polypeptides are useful for stimulating release of tumour necrosis factor-alpha (TNF-alpha) from human blood and may thus be used in the treatment of conditions in which enhanced TNF-alpha release would be beneficial. They are also useful for stimulating the proliferation or differentiation of chondrocytes and as such may be used in the treatment of various bone and/or cartilage disorders such as arthritis and sports injuries. The PRO polypeptides may be used in a method for detecting the presence of a tumour (e.g., an adrenal tumour, lung tumour, colon tumour, breast tumour, prostate tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This method involves comparing the level of expression of the PRO polypeptide in test and control samples, where a higher level of expression of PRO polypeptide in the test sample as compared to the control sample is indicative of the presence of a tumour. The PRO polypeptides are additionally useful for in drug screening to identify agonists and antagonists of PRO polypeptides. PRO nucleic acids are useful as hybridisation probes (for isolation of cDNA molecules), in chromosome and gene mapping, in the generation of antisense RNA and DNA and in gene therapy. The nucleic acids can also be used for mapping genes encoding PRO polypeptides, for genetic analysis of individuals with genetic disorders, and for generating either transgenic animals or knock-out animals which are useful in the development and screening of therapeutically useful compounds. Sequences ACC90994-ACC91298 represent cDNAs encoding the human PRO secreted/transmembrane polypeptides of the invention. Note: The sequence data for this patent is also available in electronic format from USPTO at seqdata.uspto.gov/sequence.html

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QY      2241 AA 2242
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Db      2773 AA 2774

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KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy; gene; ss.
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OS Homo sapiens.
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PN US2003036132-A1:
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PD 20-FEB-2003.
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PR 16-SEP-1998; 98WO-US019330.
PR 17-SEP-1998; 98US-0100683P.
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PR 23-SEP-1998; 98US-0101477P.

PR	24-SEP-1998;	98US-0101738P.	
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PR	07-OCT-1998;	98US-00168978.	
Query Match 3.0%; Score 66.6; DB 8; Length 2846;			
Best Local Similarity 71.3%; Pred. No. 0.00023;			
Matches 87; Conservative 0; Mismatches 35; Indels 0; Gaps 0;			
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Db	2653	CCTTTTCCTTCCCCATCTCTGTGACACATTTTAAATAAATAAGGTTGGCTTCTGAAC	2712
QY	2181	NCTCCCAA	2240
Db	2713	CAA	2772
QY	2241	AA	2242
Db	2773	AA	2774
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ID	ACC81523 standard; cDNA; 2846 BP.		
XX	ACC81523;		
AC	ACC81523;		
XX	28-JUL-2003 (first entry)		
DT	Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.		
DE	Human; PRO; secreted protein; transmembrane protein;		
XX	extracellular domain; tumour necrosis factor-alpha; TNF-alpha;		
KW	chondrocyte; proliferation; differentiation; cartilage disorder;		
KW	bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;		
KW	adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;		
KW	liver; drug screening; transgenic animal; genetic analysis;		
KW	antiarthritic; vulnery; gene therapy; gene; ss.		
XX	Homo sapiens.		
OS	US2003032137-A1.		
XX	13-FEB-2003.		
PN	02-JUL-2002; 2002US-00187745.		
XX	18-SEP-1997; 97US-0059263P.		
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PR	17-OCT-1997; 97US-0062250P.		
PR	21-OCT-1997; 97US-0063486P.		
PR	24-OCT-1997; 97US-0063120P.		
PR	24-OCT-1997; 97US-0063121P.		
PR	28-OCT-1997; 97US-0063540P.		
PR	28-OCT-1997; 97US-0063541P.		
PR	28-OCT-1997; 97US-0063544P.		
PR	28-OCT-1997; 97US-0063564P.		
PR	29-OCT-1997; 97US-0063734P.		

PR	31-OCT-1997;	97US-0063870P.
PR	31-OCT-1997;	97US-0064103P.
PR	13-NOV-1997;	97US-0065311P.
PR	21-NOV-1997;	97US-0066120P.
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PR	18-DEC-1997;	97US-0068017P.
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XX
AC ACC86483;
XX
DT 28-JUL-2003 (first entry)
XX
DE Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnerary; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003027268-A1.
XX
XX 06-FEB-2003.
PD
XX
PF 18-JUN-2002; 2002US-00175740.
XX
PR 18-SEP-1997; 97US-0059263P.
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PR 24-OCT-1997; 97US-0063120P.
PR 24-OCT-1997; 97US-0063121P.
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PR 18-DEC-1997; 97US-0068017P.
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PR 07-MAY-1998; 98US-0084639P.
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PR 02-JUL-1998; 98US-0091626P.
PR 02-JUL-1998; 98US-0091628P.
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PR 24-JUL-1998; 98US-0094006P.
PR 04-AUG-1998; 98US-0095282P.
PR 10-AUG-1998; 98US-0095998P.
PR 10-AUG-1998; 98US-0096012P.
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ACC92920
ID ACC92920 standard; cDNA; 2846 BP.
XX
AC ACC92920;
XX
DT 22-AUG-2003 (first entry)
XX
DE Human secreted polypeptide PRO1344-encoding cDNA, SEQ ID NO:169.
XX
KW Human; PRO; secreted protein; transmembrane protein;
KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
KW chondrocyte; proliferation; differentiation; cartilage disorder;
KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
KW liver; drug screening; transgenic animal; genetic analysis;
KW antiarthritic; vulnery; gene therapy; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003032135-A1.
XX
PD 13-FEB-2003.
XX
PF 01-JUL-2002; 2002US-00187594.
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PR 26-JUN-1998; 98US-00105413.
PR 16-SEP-1998; 98WO-US019330.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 06-NOV-1998; 98US-00187368.
PR 01-DEC-1998; 98WO-US025108.
PR 07-DEC-1998; 98US-00202054.
PR 03-MAR-1999; 99US-00254311.
PR 08-MAR-1999; 99WO-US005028.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99WO-US010733.
PR 02-JUN-1999; 99WO-US012252.
PR 25-AUG-1999; 99US-00380137.
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PR 25-AUG-1999; 99US-00380139.
PR 25-AUG-1999; 99US-00380142.
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PR 18-OCT-1999; 99US-00403297.
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PR 30-MAR-2000; 2000WO-US008439.
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PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
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PR 22-AUG-2000; 2000US-00644848.
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PR 18-SEP-2000; 2000US-00664610.
PR 18-SEP-2000; 2000US-00665350.
PR 08-NOV-2000; 2000US-00709238.
PR 08-NOV-2000; 2000WO-US030952.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
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PR 22-MAR-2001; 2001US-00816744.

PR 10-MAY-2001; 2001US-00854208.
PR 10-MAY-2001; 2001US-00854280.
PR 25-MAY-2001; 2001US-00866028.
PR 01-JUN-2001; 2001WO-US017800.
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PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 18-JUL-2001; 2001US-00908827.
PR 30-JUL-2001; 2001US-00918585.
PR 06-AUG-2001; 2001US-00924419.
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PR 16-AUG-2001; 2001US-00931836.
PR 28-AUG-2001; 2001US-00941992.
PR 29-AUG-2001; 2001WO-US027099.
PR 04-SEP-2001; 2001US-00946374.
PR 15-JAN-2002; 2002US-00052586.
XX
PA (GETH) GENENTECH INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-466225/44.
DR P-PSDB; ABR71877.
XX
PT New secreted and transmembrane PRO polypeptides and nucleic acids, useful
PT in gene therapy, or for preparing a medicament for treating a condition
PT that is responsive to the PRO polypeptide or anti-PRO antibody.
XX
PS Claim 2; Fig 169; 707pp; English.
XX
CC The invention relates to human PRO secreted/transmembrane polypeptides
CC (ABR71793-ABR72097) and nucleic acids encoding them (ACC92836-ACC93140).
CC The invention also relates to sequences at least 80% identical to the PRO
CC nucleic acid and polypeptide sequences of the invention, recombinant
CC vectors and host cells comprising a PRO nucleic acid, a method for the
CC recombinant production of a PRO polypeptide, antibodies against a PRO
CC polypeptide, and fusion proteins comprising a PRO polypeptide. Nucleic
CC acids encoding PRO polypeptides of the invention were initially
CC identified via homology screening using consensus sequences based on the
CC extracellular domain sequences from known secreted proteins. Human cDNA
CC libraries containing sequences of interest were identified using
CC oligonucleotides based on the consensus sequences, and cDNA clones were
CC isolated and characterised. The PRO polypeptides are useful for
CC stimulating release of tumour necrosis factor-alpha (TNF-alpha) from
CC human blood and may thus be used in the treatment of conditions in which
CC enhanced TNF-alpha release would be beneficial. They are also useful for
CC stimulating the proliferation or differentiation of chondrocytes and as
CC such may be used in the treatment of various bone and/or cartilage
CC disorders such as arthritis and sports injuries. The PRO polypeptides may
CC be used in a method for detecting the presence of a tumour (e.g., an
CC adrenal tumour, lung tumour, colon tumour, breast tumour, prostate
CC tumour, rectal tumour, cervical tumour or liver tumour) in a mammal. This
CC method involves comparing the level of expression of the PRO polypeptide
CC in test and control samples, where a higher level of expression of PRO
CC polypeptide in the test sample as compared to the control sample is
CC indicative of the presence of a tumour. The PRO polypeptides are
CC additionally useful for in drug screening to identify agonists and
CC antagonists of PRO polypeptides. PRO nucleic acids are useful as
CC hybridisation probes (for isolation of cDNA molecules), in chromosome and
CC gene mapping, in the generation of antisense RNA and DNA and in gene
CC therapy. The nucleic acids can also be used for mapping genes encoding
CC PRO polypeptides, for genetic analysis of individuals with genetic
CC disorders, and for generating either transgenic animals or knock-out
CC animals which are useful in the development and screening of
CC therapeutically useful compounds. Sequences ACC92836-ACC93140 represent
CC cDNAs encoding the human PRO secreted/transmembrane polypeptides of the
CC invention. Note: The sequence data for this patent is also available in
CC electronic format from USPTO at seqdata.uspto.gov/sequence.html
XX
SQ Sequence 2846 BP; 768 A; 696 C; 745 G; 637 T; 0 U; 0 Other;

PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 09-APR-1998; 98US-0081195P.
PR 15-APR-1998; 98US-0081838P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083559P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 07-MAY-1998; 98US-0084639P.
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